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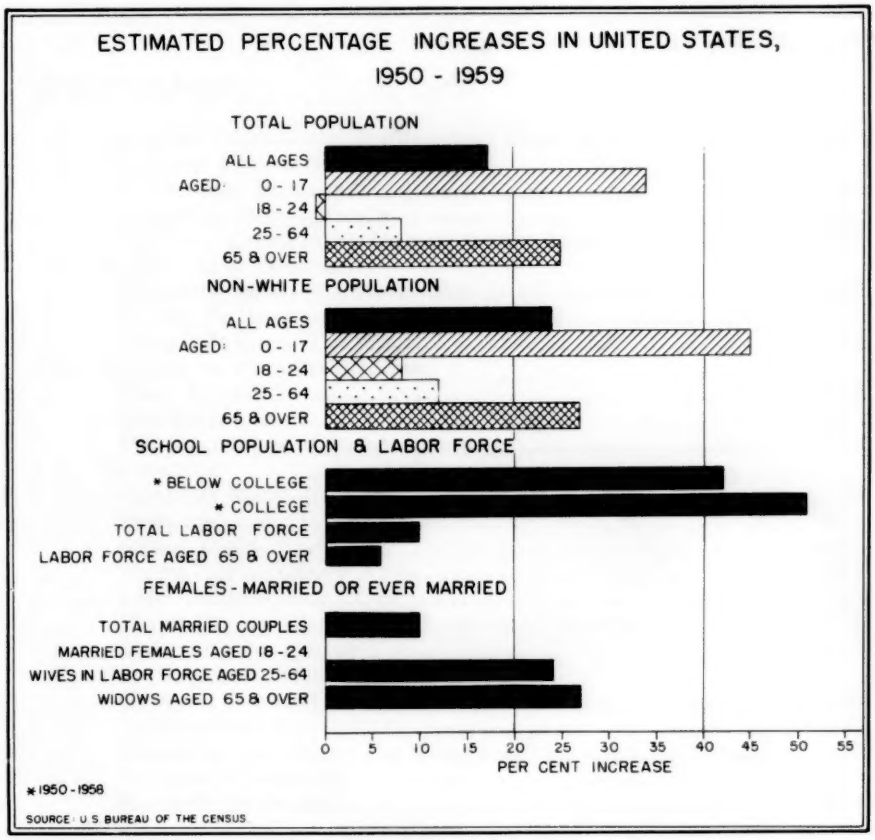

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CURRENT ITEMS

PLANS FOR THE 1960 CENSUS OF POPULATION

In the 1960 Census approximately 180 million persons in the United States will be enumerated, comprising about 54 million households living in an equal number of dwelling units; in addition, six million or seven million vacant dwelling units will be visited. The statistical information about these people and their living quarters will be recorded by some 160,000 enumerators, under the supervision of several thousand crew leaders and other field agents of the Bureau of the Census.

The cost of the 1960 Census, including the censuses of population, housing, and agriculture, will probably be close to $120 million, nearly $15 million less than that required if the 1950 Census program were to be repeated in 1960 (taking into account increased unit costs, population growth, increases in the number of dwelling units, and a decrease in the number of farms). Of the total cost, about four-fifths will be for the censuses of population and housing. The lower relative cost for 1960 reflects the fact that the Bureau will take advantage of economies resulting from an extension of sampling procedures, from the greater use of electronic equipment, and from greater efficiency in clerical operations. It is contemplated that the budget will be adequate to provide for some types of improvement in coverage and in quality of the statistics as compared with those collected in 1950.

April 1, 1960, is the target date for the "big count." Between April 1 and June 15 the several steps in the field work of collecting the census data are to be completed and the field offices closed. In the meantime, schedules containing population and housing information will be steadily pouring into the central processing office in Jeffersonville, Indiana. There the coding and microfilming of the field documents will take place. In turn, the microfilm will be shipped to the Bureau's Washington office, where it will be processed through the FOSDIC machine to transfer the information to magnetic tape. (FOSDIC is an abbreviation meaning "Film Optical Sensing Device for Input to Computer.") The tape will then be sent to one of the three electronic tabulating centers, at the Census Bureau in Washington, D.C., the University of North Carolina in Chapel Hill, and the Armour Research Foundation of the Illinois Institute of Technology in Chicago. The tabulated results will then be recorded by high-speed electronic printers in form for reproduction in the 1960 Census volumes. It is estimated that the electronic processing will permit the publication of the final census reports many months sooner than in the previous census.

Pretest Program

The pretesting of concepts and operating procedures has occupied much of the time of an expanded professional staff at the Bureau of the Census for the last three years. Well over a dozen pretests were conducted, ranging from informal tests applied to a few households near the Washington office to supplemental work in connection with special censuses for cities as large as Memphis and New York. The selection of places for the pretests was somewhat fortuitous, as the choice often was limited to places of appropriate size that were requesting a special census. In some instances, the tests were made entirely at the expense

of the Census Bureau, but with the full cooperation of responsible authorities in the area enumerated.

In the spring of 1957, simultaneous pretests were made in connection with special censuses in several communities in the State of New York, experimenting with ways to improve coverage (having crew leaders prelist dwelling units to be visited by enumerators, circularizing families of school children for names of persons possibly missed in the census, checking names on voting lists against names in the census, and so on). At the same time in Yonkers, the feasibility of having household respondents mark FOSDIC schedules was being tested and the first experimentation was conducted on a two-stage enumeration process, a prototype of the field procedure later adopted for most areas in 1960.

In October and November of 1957, other pretests were under way. In the 35,000 households covered by the Current Population Survey, questions were asked on adult education, to ascertain the advisability of including this subject in the 1960 Census. In Philadelphia a sample of households was visited to test simplified questions to measure employment status, to determine the effect of recording industry before occupation, to gain experience in collecting data on name of employer to improve the coding of occupation and industry, to determine the feasibility of getting useful information on occupation for those who had not been in the labor force for specified periods of time, to experiment with alternative methods of obtaining information on place of work, and to determine the relative ease of obtaining data on date of marriage by different question wordings.

Also in October and November of 1957, pretesting of several coverage checks was undertaken in connection with a special census of Indianapolis, Indiana. A list of heads of households enumerated in the special census was compared with a list of householders at the post office and with a list of dwelling units prepared by crew leaders in advance. Other checks of population coverage were made, including one which involved lists of households containing persons known to social agencies. At Hartford City, Indiana, the first use was made of an "Information Sheet" (later called an Advance Census Report), a questionnaire mailed to the household prior to the enumerator's visit. The experience with this and a revised form tested in Lynchburg, Virginia, in February 1958 was generally favorable. Using self-enumeration in this way tends to improve the quality and completeness of answers to questions in the census, by providing the household an opportunity to search records or to ask the most appropriate member for information on difficult questions, such as occupation, income, and value of the home.

A major step in the pretesting of self-enumeration, in combination with the mailing of schedules to a local office and with a field follow-up, was taken in Memphis, Tennessee, in February 1958. Special attention was given to the evaluation of the completeness of coverage of the population within households and to the reporting on employment status. The test was analyzed also from the viewpoint of the relative cost of self-enumeration and direct enumeration. The experience in Memphis encouraged Bureau officials to investigate further the feasibility of self-enumeration in a large-scale census.

Other pretests in 1958 included one in Dallas, Texas, in which alternative wordings of the questions on income from sources other than wages were tested. In the same pretest, the relative merits of asking about migration on a one-year basis as compared to a five-year basis

were studied. Also, the ability of respondents to report correctly on whether a previous residence was inside or outside city limits was checked.

In October 1958, a pretest in Martinsburg, West Virginia, focussed on the ability of the FOSDIC machine to read the schedule items and on a procedure for predesignating the households to be in the sample. The Current Population Survey was again the medium for a pretest in November 1958, to measure the effect of the proposed change in household and dwelling-unit definitions.

In February 1959 in Catawba and Rutherford counties, North Carolina, a two-stage procedure for enumeration was used in rural as well as urban areas. The evaluation of the pretest revealed places where adjustments were needed in the training of enumerators and in the instructions for transcribing data from self-enumeration forms to FOSDIC schedules. The pretest schedules were transcribed to 1960 Census schedules and processed through editing, microfilming, and the later stages, including tabulation. Following this pretest, only minor changes of wording and schedule design were made before the enumeration forms were sent to the printer.

The pretest program for the 1960 Census had been completed at the time of this writing (August 1959). Although many decisions regarding the issuance of the final results of the decennial census still lay ahead, the content of the census schedules and the procedures for enumeration had assumed essentially final form, and the broad outlines of the tabulation and publication programs were being formulated. In the following sections some of the considerations which entered into the final decisions concerning each of these subjects will be presented.

The Content of the Census Schedules

Though the list of questions in the 1960 Census may seem long, it would be much longer if it contained all the items that received serious consideration, and longer still if it contained all those seriously proposed by persons and groups with special interests. Among the factors considered in making a final choice of items for the census was the extent to which they are in the public interest and the extent to which an acceptable quality of response is anticipated. All questions were in competition for the limited space on the schedule and for the funds available for the census.

The population questions selected are shown in Exhibit A, with brief notes on the major differences between the items in the 1950 and 1960 censuses. In discussing the questions selected, mention will also be made of related questions that were rejected.

Only a small number of "basic" questions in 1960 will be asked of the entire population. The remainder will be asked of a 25 per cent sample of households (and of a 25 per cent sample of persons not living in households). In 1950, more questions, notably those on state or country of birth, employment status, occupation, and industry, were asked of all persons; the remaining questions were asked on the basis of either a 20 per cent sample or a 3-1/3 per cent subsample of persons. The household sample in 1960 is slightly less efficient for tabulating data for individuals, because of the clustering of persons in the sample; mainly for this reason, the sample size was raised to 25 per cent for 1960. A household sample, by providing information on the sample items for all

members of a household, has the distinct advantage that these items can be cross-classified for the various family members, such as the head and wife. The household sample is a better design also for collecting data on income for members of the family; in 1950, it was necessary to obtain family income by asking separately for the income of the head and for other family members as a group. And there are certain other questions, the replies to which are improved by use of a sample of households.

EXHIBIT A

1960 Census Items	1950 Census Items
Basic (complete-count) items in 1960	
Household relationship	Slightly different household concept
Marital status	Same as 1960
Age (based on quarter and year of birth)	Age at last birthday
Sex	Same as 1960
Race	Virtually same as 1960
25 per cent sample items in 1960	
Detailed household relationship	Fewer categories
Farm residence (based on acreage and value of farm products sold)	Based on a question as to whether the household lived on a farm
State or country of birth	Same as 1960
Country of birth of parents	Same as 1960*
Language spoken before coming to United States (for foreign born)	Not in 1950 Census
Year moved into this house	Not in 1950 Census
Residence in 1955 (county and city)	Residence in 1949 (county)*
Highest grade of school attended	Same as 1960*
Highest grade of school completed (up to 5 or more years of college)	Highest category 4 or more years of college*
School attendance (ages 5 to 34)	Same as 1960, but ages 5 to 29*
Attending public or private school	Not in 1950 Census
For persons ever married:	
Married once, more than once	Same as 1960**
Quarter and year of first marriage	Years in current marital status**
For women ever married:	
Number of children ever born	Same as 1960**

For persons 14 years old and over:	
Employment status last week	Included major activity
Number of hours worked last week	Same as 1960
Year when last worked	Not in 1950 Census
For persons with some work experience, 1950-1960:	
Name of employer (a coding aid, not for publication)	Not in 1950 Census
Occupation, industry, and class of worker	For persons in labor force with work experience
Place of work (county and city)	Not in 1950 Census
Means of transportation to work	Not in 1950 Census
Number of weeks worked last year	Same as 1960*
Wage and salary income	Same as 1960*
Self-employment income	Same as 1960*
Income from other sources	Same as 1960*
Military service (Korean War, WWII, WWI, other, or present)	Same, except Korean War*

* Based on 20 per cent sample in 1950.

** Based on 3-1/3 per cent sample in 1950.

Note: Items in the 1950 Census with no asterisk were based on the complete count.

The extension of sampling in the 1960 Census made it possible to include a few questions which would otherwise have been omitted; it also promises a speedup of enumeration and processing and, in turn, the tabulation of additional results as compared with those published from the 1950 Census. The uniform size of sample for all population items in 1960 will widen the range of cross-classifications of items for the full sample and will eliminate gaps due to the impression, which some enumerators may have received in the 1950 Census, that items in a subsample are unimportant and hence may be left blank if answers are not readily available.

In 1950, the published sample figures were obtained by inflating the sample observations by the reciprocal of the sampling ratio. For example, the 20 per cent (1/5) sample observations were multiplied by five. In the 1960 Census, the plan is to adjust the sample data in broad groups by age, sex, and possibly other characteristics, in accordance with the total counts obtained from the basic tabulations. These adjustments are to be made for all areas, down to the smallest. This procedure tends to reduce sampling variability.

Basic (complete-count) items in 1960. The item on household relationship is based on a new definition of dwelling unit. As in 1950, the number of households will be equal to the number of occupied dwelling units, a household being defined as the population occupying one dwelling unit. The change in definition amounts to a further clarification of the criteria established in 1950 for a dwelling unit. In 1960 a dwelling unit will be defined as separate living quarters containing cook-

ing equipment for exclusive use, or having direct access from the outside or from a common hall. In 1950 a dwelling unit was defined as separate living quarters with cooking equipment for exclusive use, or with two rooms and a separate entrance. The change in definition was made in recognition of the fact that the dwelling-unit count did not cover certain types of living quarters in the 1950 Housing Census, especially in areas containing rooming houses, where statistics on housing are critically needed in evaluating urban renewal proposals. The results of a pretest conducted in the Current Population Survey of November 1958 suggest that perhaps a million occupied dwelling units will be added as a consequence of the new criteria for a dwelling unit. Most of these additional units will have one or two rooms occupied by one or two persons. Additional information on the effects of the change in definition is to be provided by one phase of the 1960 Census of Housing on components of change in dwelling units since 1950, to be based on a large sample survey by the Bureau of the Census late in 1959 and in 1960. This study will comprise the second stage of SCARF (Survey of Components of Change and Residential Finance).

Age will relate to age at last birthday, as in previous censuses, but will be determined in the 1960 Census on the basis of date of birth, with replies recorded in terms of the quarter of the year and the year of birth. In 1950 the question asked directly for age at last birthday. The shift to date of birth was made to increase the precision of reporting on age.

The classification of the population by race will contain the same categories as in 1950, with one exception. The attempt made in 1950 to identify persons who are of mixed Indian, Negro, and white race was not successful; hence, this distinction is not being made in 1960.

Though residence is not an item to be asked on the schedule, the data in the basic tabulations will be available for "urban" and "rural" areas — a two-way classification. The definition of urban population will be the same as it was in 1950 except that towns in New England and townships in Pennsylvania and New Jersey will be recognized as urban places if they meet certain requirements with respect to density, etc. Active consideration was given to the extension of urbanized areas to include cities of 25,000 to 50,000 and their densely settled fringes, as well as those with a central city of 50,000 and over as in 1950; but this proposal was dropped because of the cost factor. Moreover, active study was devoted to the possibility of subdividing the rural population by size of place below the level of villages of 1,000 inhabitants as in 1950, but the geographic work involved in establishing boundaries could not be done with acceptable precision with the funds available. The procedure of setting up "census county divisions," started in the State of Washington in 1950 to provide more stable boundaries than "minor civil divisions," was extended to 17 states for 1960.

25 per cent sample items in 1960. Two questions on farm residence will be asked of persons in the 25 per cent sample in rural areas. One question will determine whether their house is located on a place of 10 acres or more and, if it is, the second question will determine whether the sale of farm products amounted to $50 or more in 1959; if the answer to the second question is also in the affirmative, the place will be classified as a farm. Also, if the house is on a place of less than 10 acres but the sale of farm products amounted to $250 or more, it will be classified as on a farm. The questions will not be asked in urban areas. The specific criteria of a farm were introduced to make the statistics on the farm population and farm dwelling units more nearly com-

parable with those on the number of farms as obtained from the Census of Agriculture. Use of these criteria will result in a more restrictive definition of the farm population in 1960.

The sample data will provide more categories of household relationship than in previous censuses, notably brother or sister of the head. Moreover, the institutional population will be coded according to size of institution as well as type of institution.

The item on language spoken in the person's home before he came to the United States will be asked in 1960 of all foreign-born persons. This question was not included in the 1950 Census, but a similar question (language spoken in earliest childhood) was asked of all native persons in the 1940 Census. The question is being limited in 1960 to the foreign-born population, partly because of the small proportion of native persons who reported a parental language (mother tongue) other than English in 1940 and partly as a means to effect savings.

Citizenship will not be included in the 1960 Census because of the lack of evidence of extensive use of the item from the 1950 Census for research purposes.

The question on "year moved into this house" is being asked in 1960 for use in the Housing Census as well as in the Population Census. The migration tabulations for 1960, other than those on state of birth, will be based on questions relating to residence five years before the census date; in 1950 they related to residence one year before the census. The longer period provides a larger number of persons to be analyzed as movers and is less subject to the effects on the mobility rate of a temporary change in economic conditions. The five-year period may provide slightly less accurate statistics, since the data on characteristics of movers will be given somewhat longer, on the average, after the date of the move.

The questions on education and school attendance are virtually the same as those in the 1950 Census except for the addition of an item on attending a public or private school. A pretest of questions relating to adult education was conducted in the Current Population Survey for October 1957. Experience in this pretest led to the rejection of the item for the 1960 Census because some forms of adult education are still rather ill-defined. It would be difficult, if not impossible, to obtain reliable and meaningful results on this subject in a large-scale census because it would require the asking of too many questions.

Largely in response to the research needs of students of fertility, the question on years in current marital status, asked in 1950, was changed for the 1960 Census to quarter and year of first marriage. Consideration was given to the inclusion of an additional question on date of current marriage for those who had remarried, but this item was omitted, partly because of the cost factor and partly to keep the number of questions on the subject of marriage in balance with those on other subjects. For similar reasons, the Bureau rejected a proposal to include a second question on the number of children ever born, to ascertain how many of these children had been born in the five years prior to the census.

The questions relating to employment status have been simplified, principally by the exclusion of a question on "major activity" during the week before the census. It was felt that the relatively low labor-force participation rates obtained in the 1950 Census could be ascribed in part to the inclusion of a question on major activity; evidently, enu-

merators misused this question in 1950 as a convenient device to record marginal labor-force participants as not employed or looking for work, and thereby justified the omission of questions on occupation and industry. By omitting the question on major activity, however, the Bureau will be unable to show a classification of persons not in the labor force according to whether they are keeping house, in school, unable to work, etc. It is possible, however, to infer from data on marital status, family composition, and school attendance which persons are not working because they are keeping house or are in school.

A question on duration of unemployment for unemployed persons was included in the 1950 Census, but the results were of poor quality because the item related to so few persons that it was overlooked in nearly half of the cases to which it applied. Accordingly, this item has been excluded from the 1960 schedule. Likewise, decisions against identifying migratory workers and dual-job holders were based on the relative scarcity of migratory workers and the complexity of questions required to provide adequate data on dual-job holding.

Two new items in the 1960 Census concern place of work and means of transportation to work. These questions are the two survivals of a battery of questions proposed on the general subject of journey to work. Extensive pretesting led to the conclusion that questions on this subject must be kept simple if the data are to be obtained with a reasonable amount of precision. Place of work will be asked in terms of location in county and city and whether within the city limits. Figures on this subject will relate mainly to persons living in "standard metropolitan statistical areas" (called "standard metropolitan areas" in the 1950 Census).

Considerable attention was given to the possibility of collecting separate data on farm wage work and farm income during the preceding year, but these items were rejected as being too specialized for a decennial census and too likely to be neglected in nonfarm areas.

Notable among the items which were considered for the 1960 Census but were rejected is the question, "What is your religion?" Numerous suggestions were received early in the decade for the addition of this item to provide data for research purposes and, in a measure, to fill the gap resulting from the absence of a Census of Religious Bodies in 1946 and 1956. Additional information regarding the controversy over including this item in the census and factors leading to its rejection are presented by Dorothy Good in "Questions on Religion in the United States Census" in the January 1959 issue of Population Index.

Concurrent censuses. The Housing Census in 1960 will be taken at the same time and on the same enumeration forms as the Population Census. Since space is not available for a detailed treatment of the housing items, suffice it to say that they include a number of new subjects which will reveal the quality of housing and the level of living of the population. Some of these items will be used, according to present plans, in conjunction with selected population items to develop an index of socio-economic status of family members. This index is then to be tabulated in cross-classification with other population items.

The Census of Agriculture was taken at the same date as the Population and Housing Censuses in 1950 but will be taken this time in the fall of 1959.

Enumeration and Tabulation

Major innovations are being introduced in the collection and processing operations of the 1960 Census. Some of these innovations have emerged from experimentation with more efficient methods of canvassing, some from improvements in electronic equipment, and some from research into the components of sampling variability in censuses. The changes include: self-enumeration with a two-stage canvass (for most of the population) in place of the traditional direct enumeration with a one-stage canvass; microfilming and FOSDIC in place of manual card punching; the tabulation of data from magnetic tapes instead of punch cards; and the preparation of final results for publication by automatic equipment instead of manual typing.

The collection of census data in 1960 will involve several steps which center around obtaining the basic (100 per cent) items of information on population and housing in the "first stage" and the sample information on these subjects in the "second stage." Before April 1, 1960, the post office will distribute an "Advance Census Report" to each household, with a request that the members enter the basic items of information before the visitation by enumerators, beginning April 1. When the enumerator arrives at a household, he will enter the name of the head of the household and other identifying items on an address list, transcribe to a FOSDIC document all of the basic items for all household members from the Advance Census Report (or, if necessary, from direct questions), determine whether the household is in the sample, and, if so, leave the proper number of sample schedules to be filled by the household members and mailed to the local census office within three days. These steps complete the first stage of the enumeration.

The second stage begins when the household respondents mail to the local office the completed sample questionnaires for all members of their households. The enumerator will transcribe to sample FOSDIC schedules all of the information from the questionnaires for households assigned to him. If items have not been properly marked by the respondents or if a household fails to mail in the sample questionnaire, the enumerator will follow up by telephone or by a direct visit to the household to obtain the missing information.

During both first and second stages the enumerators will be subject to detailed review of their work by field reviewers or crew leaders. This step is undoubtedly one of the most valuable innovations that have been introduced in the field procedures. It provides a means for clarifying questions which arise in the first few days of enumeration and for detecting at an early stage which enumerators are in need of further training or are totally incompetent. Especially important is the final review of the enumerator's work by the field reviewer before the schedules are accepted as finished.

The two-stage procedure was adopted for areas where the population density is high, including rural areas where conditions permit, but in the remaining areas the enumerators will collect both the basic and sample information in one visit, using the same FOSDIC schedules as those used in the two-stage procedure. Approximately 18 per cent of the population and 65 per cent of the area of the United States will be covered by the one-stage procedure.

By dividing the enumeration into two stages the work of each stage is simplified. The enumerators can be trained for the first stage

largely on methods of canvassing, techniques for securing complete coverage, designation of the sample, and general enumeration procedures, whereas the training for the second stage can be focussed on the more difficult concepts involved in the sample questions. Since only about one-third as many enumerators are required for the second stage as for the first, those who have performed most ably during the first stage can be selected for the second. As pointed out above, using self-enumeration provides an opportunity to the housewife to consult her husband or records, where necessary, before supplying the required information. Moreover, intricate investigations of the components of sampling variability in censuses have revealed substantial reductions in the variability where data are collected by self-enumeration; where enumerators are used there tends to be a clustered effect, attributable largely to certain consistent practices on the part of some enumerators. (See A. Ross Eckler and William N. Hurwitz, "Response Variance and Biases in Censuses and Surveys," Estadística, Volume XV, No. 57, December 1957, pp. 745-770.)

The completed FOSDIC schedules returned by the enumerators to the local office will pass through a "field edit," to guard against the acceptance of faulty enumeration. The schedules will then be shipped to the processing center at Jeffersonville, Indiana, and the basic FOSDIC schedules will be photographed on microfilm, which will be sent to one of the three centers (Washington, Chicago, or Chapel Hill) where tabulations will be made. For the sample FOSDIC schedules, an additional manual operation is required at Jeffersonville before microfilming, mainly to code family relationship, state or country of birth, residence in 1955, place of work, occupation, industry, and class of worker.

The microfilm will be put through the FOSDIC machine to transfer the census information to UNIVAC tape. Unlike punch cards, which contain information for only one person, the tape contains data for several thousand persons. From this point on, the tabulations will be performed by the UNIVAC computer.

The first step in tabulating data from either the basic tape or the sample tape will be to edit the census returns to eliminate inconsistencies and nonresponses on selected items by a mechanical "allocation" procedure. For all of the items on the basic schedule, and for selected sample items, nonresponses and inconsistencies will thus be eliminated. For example, there will be no line in the 1960 reports, according to present plans, for "not reported" in education, income, and number of children ever born, but there will still be such a line for data on occupation and industry. Figures will be published showing the extent to which these nonresponses and inconsistencies were allocated to "known" categories. To the extent possible, allocations will be made on the basis of known characteristics of the person or of other members of his family; if these sources do not suffice, the allocations will be made on the basis of the characteristics of similar persons in the same general locality.

There will probably be only one pass of the tape for the tabulation of the basic data, but there will be several passes of the sample tapes. For some of the cross-classifications required only for the United States or for regions, it is possible that a subsample of the edited sample tape will be used. Probably tabulations of personal, family, and housing characteristics will all be made from the sample tape, thus permitting a maximum of cross-classification.

Publication Program

Planning for the publication of the final reports of the 1960 Census is in progress. Already the broad outline of the program has been established and detailed specifications for the earlier reports have been completed. There are to be five series of final publications containing population statistics, designated Series P-A to Series P-E, and an additional series containing data on both population and housing by census tracts. These reports, with the possible exception of Series P-A, will be prepared for photo-offset printing directly by the electronic high-speed printer, which can type six lines of 120 characters per second. The size of the print will be a little larger than that in 1950, and, consequently, there will be fewer columns of data per page. Nonetheless, present plans call for the publication of a larger number of population figures for 1960 than for 1950. Perhaps the greatest expansion will be in the amount of detail shown for areas below the state level.

Series P-A will be a series of state reports on the number of inhabitants for the various types of geographic areas recognized by the Bureau of the Census. Series P-B will be a series of state reports on general demographic characteristics, containing simple distributions of basic population items (such as data, by sex and color, on age, household relationship, and marital status). A special feature of this series will be a table showing the population in households only, for urban places and counties with 1,000 or more persons not living in households (i.e., members of the Armed Forces in barracks, students in college dormitories, inmates of institutions, etc.). This table will make comparable the statistics for areas with and without large numbers of such persons.

Series P-C will be a series of state reports on general social and economic characteristics, containing simple distributions of sample data on population. This series, together with Series P-B, will correspond to the 1950 reports entitled "General Characteristics," but will contain several new items. Data in these two series will be shown for cities of 10,000 or more, standard metropolitan statistical areas, urbanized areas, counties, and states, and also, though with less detail and fewer items, for urban places of 2,500 to 10,000, places of 1,000 to 2,500, rural parts of counties, and minor civil divisions.

Series P-D will be a series of state reports on detailed characteristics showing cross-classifications of items in approximately the same detail as in the reports on "Detailed Characteristics" for 1950 and for similar types of areas — states by urban and rural residence, standard metropolitan statistical areas, and large cities.

Series P-E will comprise a series of special population reports showing characteristics for the United States and regions, with the maximum feasible amount of cross-classification. These reports will be organized by subject, as in 1950, and will probably contain data on employment status, occupation, income, families, marriage, fertility, education, size of place, migration, place of work, and ethnic groups. This series is expected to contain reports on families and fertility of the type which were planned, but not completed, for 1950. It will probably also include a summary and analytical report, with chapters dealing with the several subjects covered by the census.

The series of reports containing population and housing data on census tracts will include statistics for nearly all cities of 100,000 or more and for numerous smaller cities and their surrounding thickly

populated territory. The number of census tracts (23,000) will be approximately twice as large as the number in 1950.

The state reports will contain data for Alaska and Hawaii on a basis comparable with the other states. Special tabulations will be made and published, however, of certain details on race for these two new states, as in the previous censuses. For the Trust Territory of the Pacific a census was taken in 1958 by the High Commissioner's office; and the Census Bureau has coded and tabulated the results.

For the purpose of advance planning, the reports in Series P-A have been scheduled for publication between November 1960 and May 1961. The first report in Series P-B is to be published about January 1961, the first in Series P-C about April 1961, and the first in Series P-D about August 1961. Series P-E is to be published during 1962.

Additional studies to be made in connection with the 1960 Census, but for which no publication plans have been developed, include a series of evaluations of the 1960 Census. The evaluation program is expected to include the measurement of the nonsampling variances of census statistics, the measurement of biases both in coverage and in the reporting of characteristics, and studies of alternative methods and procedures.

Work has been started, in cooperation with the Social Science Research Council, on planning a series of monographs to contain analyses of 1960 Census data. The American Public Health Association also has a committee planning a series of monographs, which are to make maximum use of data from the 1960 Census.

The 1960 Census of Population will eventually be judged in terms of the accuracy, completeness, and usefulness of the published results. To maximize the prospects for achieving the desired objectives, several advisory groups have been established. These have been convened periodically during the last three years to review the decennial census plans and to make recommendations regarding them. Among the groups have been the Council of Population and Housing Census Users, representing about seventy of the major national organizations which make wide use of population and housing statistics; the Federal Agency Population and Housing Council, which includes representatives of about twenty-five statistical agencies in Washington; and the Technical Advisory Committee for the 1960 Population Census, which comprises approximately twenty recognized experts on demographic, social, and economic statistics.

Furthermore, in 1956 the Population Association of America established a Committee on the 1960 Census which has rendered valuable assistance, through its work groups, on the assessment of items for inclusion in the Census and on the tabulation program. The work groups offered suggestions on the accuracy and reliability of basic demographic data, census areas and residential categories, migration, fertility, nuptiality, families, religion, race-nativity and color, journey to work, and measurement of socio-economic status. (See Otis Dudley Duncan's article, "Report of the Committee on the 1960 Census, Population Association of America," in the October 1957 issue of Population Index.) In 1959, the work groups prepared recommendations on the tabulation program.

The decennial census in this country has become a mammoth undertaking, involving the cooperative efforts of field personnel, central staff members, advisory groups, executive administrators, Congressional legislators, and — last but not least — patient respondents.

In this undertaking, all of these groups share credit for the final product, namely, several scores of thousands of pages of published statistics on the characteristics of the population of the United States.

Paul C. Glick

U. S. Bureau of the Census

BIBLIOGRAPHY

This bibliography is compiled principally from publications available to the editors or cited in the literature. Selection is on the basis of intrinsic merit, current interest, and paucity or richness of the literature for the various areas and problems. Coverage is less complete in peripheral fields, selection less rigid in underdeveloped areas. The major resources utilized in addition to those of the Office of Population Research are the current acquisitions of the Princeton University Library, the New York Public Library, the United Nations Headquarters Library, and the Library of the New York Academy of Medicine.

The editors acknowledge the generous cooperation of the staff of the New York Public Library, and especially that of the Economics Division, in making the numerous excellent facilities of the Library available to them. The coverage of official publications of national governments is facilitated by accession lists and occasional other aid from several government agencies.

The basis of the subject classification in this bibliography was described in the January 1955 issue of Population Index, pages 21 to 27. Regularly recurring compilations of official statistics that have been listed in the bibliographies of the United Nations Demographic Yearbook are not normally covered here. English translations of titles and abstracts have been made by the editors. Titles contributed by individuals other than the editors are acknowledged by placing the name of the contributor in brackets at the end of the entry. If a translation or annotation is taken from a secondary source, that source is also cited in brackets. The titles of items not seen by the editors are marked with the symbol °.

A list of the sources used in the preparation of this bibliography appears with the cumulative index for Volume 24. The following abbreviations are used for the bibliographical sources quoted in the annotations of this issue:

B.A.	- Biological Abstracts.
B.A.D.	- Bulletin Analytique de Documentation Politique, Economique et Sociale Contemporaine. (France. Fondation National des Sciences Politiques.)
B.B.	- Bulletin Bibliographique. (Ministère de la France d'Outre-Mer. Direction des Affaires Economiques et du Plan. Service des Statistiques.)
C.L.M.L.	- Current List of Medical Literature. (U. S. National Library of Medicine.)
D.D.G.	- Distribution Data Guide. (U. S. Department of Commerce.)
I.B.S.	- International Bibliography of Sociology. (U.N.E.S.C.O.)
I.L.R.	- International Labour Review. (International Labour Office.)
J.S.R.	- Japan Science Review; Economic Sciences. (Japan Union of Associations of Economic Sciences.)
L.C.C.D.	- Library of Congress. Card Division. [Weekly Proofsheets.]
P.A.I.S.	- Public Affairs Information Service. Bulletin.
P.R.T.	- Population: Revue Trimestrielle.
P.R.U.S.	- Bibliography on Puerto Ricans in the United States. (See Title 4472, this issue.)
T.A.	- Tropical Abstracts. (Netherlands Royal Tropical Insitute.)
U.N.G.L.A.	- United Nations Library. Geneva. Monthly List of Selected Articles.
U.S.B.C., P-90	- U. S. Bureau of the Census. International Population Reports, Series P-90.
U.S.D.A.	- Bibliography of Agriculture. (U. S. Department of Agriculture.)

The further development of the bibliography as a contribution to international demographic research requires the cooperation of scholars throughout the world. The editors welcome exchange relationships with institutions, reprints of research contributions, and citations to fugitive studies or those in non-Western languages.

A. GENERAL POPULATION STUDIES AND THEORY

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Some aspects of practical applications of the theory of population genetics to man. Bulletin de l'Institut International de Statistique (Stockholm) 36(3):277-283. 1958. With French summary. See 25:Title 3010.
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Analytical report of the findings of the study of the past and prospective growth of American families, based on interviews with a national sample of 2,713 young married women, conducted by the Survey Research Center of the University of Michigan. Chapters provide discussion and conclusions reached on the following topics: Sterility and fecundity of American families; The use of methods to regulate conception; Family limitation: the social and economic correlates; Attitudes toward family limitation; The methods of family limitation used by American couples; Expected family size: principal findings and trends; The influence of fecundity impairments and family planning on number of children; Family size in different social and economic groups; Future trends in family size: a longer and broader view; Population growth, 1955-2000. Introductory chapter discusses purpose and method in general. Appendixes A-G present detailed documentation. Basic tables, constituting Appendix H, are obtainable in mimeographed form from the Scripps Foundation for Research in Population Problems, Miami University, Oxford, Ohio.

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4014 Pluta, R.
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4030 Mayr, Karl M., Editor.
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[See also Titles 4001, 4002, 4011, 4028, 4035, 4036, 4044, 4054, 4055, 4103, 4309, 4310, 4316, 4320, 4394, 4422, 4430, 4459, 4522]

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D. TRENDS IN POPULATION SIZE

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[See also Titles 4006, 4044, 4062, 4084, 4087, 4091, 4113, 4129, 4272, 4303, 4323, 4333, 4343, 4348, 4353]

E. MORTALITY

General Mortality

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Almeida, Aloysio S. de, and Albuquerque, A. M. de. Coeficient de mortalidade perinatal em diversas areas do interior do Brasil [Perinatal mortality in various areas in the interior of Brazil]. No. 1, pp. 105-110. ["The perinatal death rate is obtained by adding stillbirths of over 28 weeks' gestation to infant deaths in the first 7 days of life, using as denominator the number born alive plus the late stillbirths. Tables are given to show that this is a more useful index in appraising health conditions in a community than separate rates for stillbirths and precocious infant mortality." B.A. 33(6)]
Almeida, A. S. de, and Agra, R. G. Aspectos medico-sanitários de alguns municípios do Estado de Pernambuco [Medico-sanitary aspects of some municipalities of Pernambuco]. No. 1, pp. 119-136. ["A survey of birth and death rates, infant mortality, causes of death and cases of communicable disease in urban and surrounding areas of 4 municipalities of the State of Pernambuco from 1951-1955 showed satisfactory improvement following the health pro-

gram developed by SESP...." B.A. 33(7)]

Almeida, A. S. de, and Gonçalves, A. C. Mortalidade no 1° ano de vida em um grupo de 1,292 crianças nascidas em 4 cidades de Pernambuco, no ano de 1954 [Infant mortality in a group of 1,292 children born in 4 cities of Pernambuco in 1954]. No. 1, pp. 137-144. ["The situation of 1292 children...was surveyed one year after birth in order to evaluate the efficiency of the method of collection by the local Health Units, which was found to be satisfactory." B.A. 33(6)]

Moraes, N. L. de A., and Pimentel, N. Alguns aspectos sanitários da cidade de Juazeiro (Bahia) no periodo 1952-1954 [Some sanitary aspects of the city of Juazeiro, Bahia, 1952-1954]. No. 1, pp. 145-158. ["Biostatistical data available showed a population of 17,447; crude death rate 26.1; infant mortality 290; life expectancy at birth 38.1 years, and at 1 year of age 52.6 years. The chief causes of death among the communicable diseases were gastro-enteritis, influenza and pneumonia, tuberculosis, typhoid fever, syphilis, dysenteries, diphtheria and measles." B.A. 33(6)]

Almeida, A. S. de, et al. Aspectos demográficos, sociais, econômicos e sanitários dos municipios de Ilhéus e Itabuna [Demographic, social, economic, and sanitary aspects of Ilhéus and Itabuna]. No. 2, pp. 17-56. ["Illiteracy is 65% in urban, 76% in rural zones of these municipalities, 2 of the 5 most important demographically and economically, in the State of Bahia. Infant mortality is the chief health problem...." B.A. 33(7)]

Almeida, A. S. de, and Moraes, N. L. de A. Mortalidade, longevidade e morbidade em 4 municípios de Pernambuco [Mortality, longevity, and morbidity in 4 municipalities of Pernambuco]. No. 2, pp. 133-158.°

Gonçalves, A. C., and Breckenfeld, R. A. Mortalidade e longevidade no município de Pesqueira [Mortality and longevity in Pesqueira]. No. 2, pp. 159-168. ["Life expectancy at birth in the municipality of Pesqueira, Pernambuco for 1951-55 was 36 years for males and 39 for females, due chiefly to high mortality in 0-1 age group." B.A. 33(7)]

4125 Merkov, A. M.
[Dynamics of mortality in the U.S.S.R. and in capitalistic countries.] Gigiena i Sanitariia (Moscow) 24(1):59-64. Jan. 1959. In Russian.°

4126 Metropolitan Life Insurance Company.
[Notes on mortality in the United States.] Statistical Bulletin, Vol. 40, March, April, and May 1959.

Survival to age 65 and beyond. March. Pp. 1-3.

Loss of life in floods: a 30-year survey. Ibid. Pp. 8-10.

Falls a major cause of death. April. Pp. 8-10.

Recent trends in infant mortality. May. Pp. 6-8.

4127 Rédei, Jenö.
A halandóság alakulása magyarországon [Mortality in Hungary]. Demográfia (Budapest) 2(1):74-100. 1959. With Russian and English summaries.

Examination of mortality trends in Hungary since the eighteenth century based on data compiled by András Fáy, and comparison with trends in birth rates. Analysis of relation of changes in age-specific mortality to changing age composition. Analysis of infant mortality differentials by occupation and urban-rural residence.

4128 Tachi, Minoru.
[On some patterns of the life-expectation curve (3)]. Jinko Mondai Kenkyu [Journal of Population Problems] (Tokyo), No. 67, Feb. 1957. Pp. 19-29. In Japanese.°

See also 23:Title 2153.

4129 Tarver, James D.
Projections of mortality in the United States to 1970. Milbank Memorial Fund Quarterly 37(2):132-143. April 1959.

"The two major objectives of this paper are: First, to ascertain the projected age-sex specific mortality rates of United States white and nonwhite populations for the years 1960, 1965, and 1970; and second, to establish the future life expectancy at selected ages for these four race-sex population groups based upon hypothetical life tables derived from projected death rates."

4130 Tizzano, A.
Il prolungamento della vita media in base alle tavole di mortalità della popolazione italiana [The prolongation of the average life span as reflected in the life tables for the Italian population]. Giornale di Gerontologia (Florence) 6(9):627-658. Sept. 1958.°

[See also Titles 4011, 4042, 4047, 4102, 4150, 4156, 4411, 4427, 4431, 4520]

Prenatal and Perinatal Mortality

4131 Alison, F., and Corone, M.
Mortalité foeto-infantile en 1956 [French

infant mortality and stillborn-rate 1956]. Bulletin de l'Institut National d'Hygiène (Paris) 12(4):813-825. 1957.°

4132 Camacho Gamba, J.
Mortalidad perinatal en Colombia. Revista de la Sociedad Colombiana de Pediatría y Puericultura (Bogotá) 17(2):90-95. April 1958.°

4133 France. Institut National d'Hygiène.
La mortalité foeto-infantile dans 308 arrondissements de la France métropolitaine 1952-1953-1954 [Infant mortality and stillborn rate in 308 districts of metropolitan France 1952-1953-1954]. Bulletin de... 12 (2):383. 1957.°

4134 Galler, M.
Perinatale Sterblichkeit unter Berücksichtigung der sozialen Schichtung [Perinatal mortality with reference to social status]. Zeitschrift für Geburtshilfe und Gynäkologie (Stuttgart) 150(3):338-360. 1958.°

4135 Margitay-Becht, D.
Szülészetünk fejlödése az utolosó 25 év alatt a szülés körüli magzati halálozás tükrében [The development of gynecology in the last 25 years as reflected by perinatal mortality]. Gyermekgyógyászat (Budapest) 9(10-11):335-340. Oct.-Nov. 1958.°
In Hungary [C.L.M.L. 35(4)]

4136 Osborn, G. R.
Discussion on neonatal deaths: secondary causes of death in the foetus and newborn. Proceedings of the Royal Society of Medicine 51(10):840-850. Oct. 1958.°
With discussion by Claireaux, ibid., pp. 851-855, and by Smellie, ibid, pp. 856-858.

4137 Veksler, D. B.
[Pathoanatomical analysis of stillbirths and neonatal mortality.] Akusherstvo i Ginekologiîa (Moscow) 35(1):93-94. Jan.-Feb. 1959. In Russian with English summary.°

4138 Wells, Henry B., et al.
North Carolina fetal and neonatal death study. I. Study design and some preliminary results. American Journal of Public Health and the Nation's Health 48(12):1583-1595. Dec. 1958.
"This report deals with a pilot study to collect and analyze data on perinatal mortality in three teaching hospitals. Some significant findings are discussed...." Factors tested include father's age, mother's age, mother's education, diet, parity, average number of previous perinatal deaths, birth interval of multiparae, height of mother, gestation period, birth weight, prenatal care.

[See also Titles 4124, 4142, 4147, 4177]

Infant Mortality

4139 Fernandes, M.
A nossa alarmante taxa de mortalidade infantile [Alarming rate of infant mortality in Portugal]. Jornal do Médico (Oporto) 38(835):172-173. Jan. 17, 1959.°

4140 Fulop, T.
[Infantile mortality in Szabolcs-Szatmar County, 1954-1955.] Nepegeszsegugy (Budapest) 39(12):330-336. Dec. 1958. In Hungarian with German and Russian summaries.°

4141 Garcia Arroyo, M. L.
Analysis of mortality statistics of infants and children in Ecuador. Journal of the American Medical Women's Association 13(8):324-325. Aug. 1958.°

4142 Great Britain. General Register Office, England and Wales.
Social and biological factors in infant mortality. By J. A. Heady and M. A. Heasman. Studies on Medical and Population Subjects, No. 15. London, H. M. Stationery Office, 1959. viii, 196 pp.
"This study assembles in a convenient form much of the basic statistical data derived from an inquiry into the deaths in infancy of children born in 1949 and 1950, which was carried out jointly by the Social Medicine Research Unit of the Medical Research Council and by the General Register Office. Its object is to make available this information for the benefit of those who may wish to make further study of it. ... The main analysis and presentation of results has been done by members of the Social Medicine Research Unit in a series of articles...." See 22:Title 1115 and 23:Title 3145 for citations to these articles.
Data were obtained by matching the draft entries for birth and death registration records for 99.4 per cent of the registered deaths of infants in England and Wales in 1949 and 1950. Part I, Single legitimate births, presents data on livebirths and stillbirths by sex, mother's age and parity, social class, region, selected causes, number of previous children lost. Part II, Multiple legitimate births. Part III, Miscellaneous tables on infant mortality, includes data on single and multiple illegitimate births. Part IV, Second year deaths. Appendix II,

Analyses available on request but not included in this publication.

4143 Grube, E., and Lorenz, K.
Gezielte Bekämpfung der Säuglingssterblichkeit durch Analyse des einzelnen Säuglingstodesfalles [Directed fight against infant mortality by analysis of particular cases of infant deaths]. Deutsche Gesundheitswesen (Berlin) 13(45):1450-1455. Nov. 6, 1958.
In East Germany; statistical analysis. [C.L.M.L. 35(4)]

4144 Hahn, G.
[The situation of infant mortality in Hungary.] Nepegeszsegugy (Budapest) 39(12): 309-323. Dec. 1958. In Hungarian with German and Russian summaries.°

4145 Signorini, L. F., and Gatta, A. M.
La mortalità infantile a Firenze tra il 1945 e il 1956 [Infant mortality in Florence between 1945 and 1956]. Annali della Sanità Pubblica, Alto Commissariato per l'Igiene e la Sanità Pubblica (Rome) 19(5):987-1017. Sept.-Oct. 1958.°

[See also Titles 4033, 4042, 4124, 4126, 4127, 4131, 4146, 4147, 4157, 4158, 4359, 4431]

Mortality at Other Ages

4146 Behar, Moisés, et al.
Estudio sobre las causas de defunción de los niños en cuatro poblaciones rurales de Guatemala [An investigation into the causes of death in children in four rural communities in Guatemala]. Boletin de la Oficina Sanitaria Panamericana (Washington) 45(5):412-420. Nov. 1958. With English summary. English text appears also in: Bulletin of the World Health Organization (Geneva) 19(6):1093-1102. 1958.
Report on methodology and findings of a study of the records for 1956 and 1957 in four highland communities, for deaths classified by age: under one month; one to 11 months; by single years of age for ages 1-4; and for the group aged 5-14.

4147 Haas, J. H. de.
L'analyse de la mortinatalité et de la mortalité de l'enfant (technique, interprétation, évaluation). Courrier; Centre International de l'Enfance (Paris) 8(10):577-590. Nov.-Dec. 1958. With English and Spanish summaries. Also separately reprinted.
A review of the status of research on child mortality by age (infant mortality, stillbirths, pre-school child mortality, mortality of school children, and adolescent mortality) and of interrelations with work in maternal and child health. Illustrative data from the Netherlands.

4148 Jonkers, A. H.
Notes on child mortality in Liberia. Tropical Geographical Medicine (Amsterdam) 10(1):61-67. 1958.
"Data on births and infant mortality were collected on the Firestone Plantations, Harbel, Liberia, by questioning 350 women...." [T.A. 13(6)]

[See also Titles 4034, 4124, 4141, 4161, 4177, 4359]

Life Tables

4149 Cutler, S. J., and Ederer, F.
Maximum utilization of the life table method in analyzing survival. Journal of Chronic Diseases 8(6):699-712. Dec. 1958.°

4150 Dimnić, Filip.
Prikaz empirijskih odnosa godišnjih vjerojatnosti umiranja (q_x) i srednjih specifičnih stopa smrtnosti prema starosti (m_x) (NR Hrvatska, 1952-1954) [An analysis of empirical relations of annual death probbilities (q_x) and the mean specific mortality rates by years of age (m_x) (People's Republic of Croatia, 1952-1954)]. Statistička Revija (Belgrade) 8(4):302-310. Dec. 1958. With French summary.
Comparison of life-table values calculated by the Becker-Zeuner formula with observed age-specific mortality rates based on the 1953 census age distributions and the vital statistics of 1952-1954. Application of tests for the suitability of the latter rates for constructing approximate life tables.

4151 Elderton, W. Palin, et al.
The construction of mortality and sickness tables; a primer. 5th edition. London, A. and C. Black, 1959. vii, 130 pp.°

4152 France. Institut National de la Statistique et des Etudes Economiques.
Table de mortalité de la population française pour la période 1952-1956 [Life table of the French population for the period 1952-1956]. By M. Croze et al. Etudes Statistiques, Supplément Trimestriel du Bulletin Mensuel de Statistique, No. 1, Jan.-March 1959. Pp. 85-104.
Presentation of tables based on the age distributions of the 1954 census, with methodological discussion and summary of results in text and diagrams. Tabular data

include various mortality indexes, age distribution of a stationary population derived from the 1952-1956 life table, and an additional life table computed for the first time taking account only of deaths due to illness (i. e. excluding deaths by accident).

4153 Lancaster, H. O.
Generation life tables for Australia. Australian Journal of Statistics (Sydney) 1(1):19-33. April 1959.
"Generation life tables have been prepared for Australia. Tables of mortality rates for Australia since 1860 have been given. These are complete at ages under 5 years and practically so at other ages. Tables are given of l_x and, where practicable without undue extrapolation, of $\mathring{e}_x$. A review has been given of comments on the mortality published before 1900. ... Some applications to the study of fertility and to the problem of aging have been made to indicate possible applications of the tables." [Author's summary]

4154 Mortara, Giorgio.
Sôbre o cálculo de tábuas de mortalidade para os estados do Brasil, mediante comparação entre censos sucessivos [The calculation of life tables for the states of Brazil by the comparison of successive censuses]. Revista Brasileira de Estatística (Rio de Janeiro) 19(73/74):1-6. Jan.-June 1958.
A discussion of the applicability of methods based on the model life tables prepared by the United Nations.

4155 Yugoslavia. Croatia. Zavod za Statistiku.
Tablice smrtnosti, 1952-1954 [Life tables, 1952-1954]. Zagreb, 1956. 17 pp.

[See also Titles 4007, 4124, 4128-4130]

Mortality by Social and Economic Groups

4156 Ellis, John M.
Mortality differentials for a Spanish-surname population group. Southwestern Social Science Quarterly 39(4):314-321. March 1959.
"This paper is based on material from the author's unpublished doctoral dissertation, 'Mortality in Houston, Texas, 1949-1951: a study of socio-economic differentials'." Comparison of data for Anglo-white and Spanish surname groups on mortality by age and sex, cause of death, and life expectancy.

4157 Martins, J.
Mocambo e mortalidade infantil [Wood huts and infant mortality]. Pediatria Prática (São Paulo) 29(8):237-246. Aug. 1958.
In Brazil, among wood-hut dwellers and slums near large cities. [C.L.M.L. 35(4)]

4158 Ramos, A. G.
Sociologia de la mortalidad infantil [The sociology of infant mortality]. México, D. F., Instituto de Investigaciones Sociales, 1955. 251 pp.°

[See also Titles 4127, 4134, 4142, 4165, 4423]

Mortality by Cause

4159 Acheson, Roy M., and Thornton, E. H.
Mortality from coronary artery disease and myocardial degeneration in the Republic of Ireland. British Journal of Preventive and Social Medicine 12(2):82-93. April 1958.
Analysis of data by sex, age, and region from annual reports of vital statistics by the Registrar General 1926-1957, and comparison with data from England and Wales, Scotland, and the World Health Organization. Discussion of significance of trends observed.

4160 Berkson, Joseph.
The statistical investigation of smoking and cancer of the lung. Reprinted from: Proceedings of the Staff Meetings of the Mayo Clinic 34:206-224a. April 15, 1959.
Analysis of empirical data used in the studies by Doll and Hill in England and by Hammond and Horn in the United States, and presentation of findings showing the correlations between increasing death rates and an increase in the amount of cigarette smoking for other causes as well as lung cancer. Notes include computation of a measure of the mortal effect of smoking and indication of desirable lines for further research.

4161 Brown, W. M., and Doll, R.
Adult leukaemia; trends in mortality in relation to aetiology. British Medical Journal, No. 5129, April 25, 1959. Pp. 1063-1069.
"The deaths from leukaemia in England and Wales for the period 1945 to 1957 have been classified under three headings.... The age-specific mortality rates have been calculated for each type of leukaemia, for each sex, and for three periods of time — 1945 to 1949, 1950 to 1954, and 1955 to 1957."

4162 Diehl, J. C., and Tromp, S. W.
Geographical and geological distribution of cancer mortality; a general analysis of basic assumptions and procedures. Acta; Unio Internationalis contra Cancrum (Louvain) 14(5):580-590. 1958.°

4163 Gerhardt, P. R., et al.
Trends in cancer incidence, mortality and probability in the State of New York. New York State Journal of Medicine 57: 1387-1390. 1957.°

4164 Gore, A. T., and Shaddick, C. W.
Atmospheric pollution and mortality in the county of London. British Journal of Preventive and Social Medicine 12(2):104-113. April 1958.

4165 Haenszel, William.
Variation in incidence of and mortality from stomach cancer, with particular reference to the United States. Journal of the National Cancer Institute 21(2):213-264. 1958.
"Available evidence on the variation in stomach-cancer incidence and mortality with respect to time trends, age, sex, race, country, geographic latitude, nativity, socioeconomic class, and urban-rural residence is reviewed." [B.A. 33(3)]

4166 Häro, A. S., and Pätiälä, J.
Tuberkuloosikuolleisuuden ja -sairastuvuuden kehityksestä Suomessa ja Helsingessä vv. 1900-1956 [Trends in tuberculosis mortality and morbidity in Finland and Helsinki during the period 1900-1956]. Duodecim (Helsinki) 74(12):677-702. 1958.°

4167 Kimball, A. W.
Evaluation of data relating human leukemia and ionizing radiation. Journal of the National Cancer Institute 21(2):383-391. 1958.
"...a discussion of the statistical reliability of existing data relating human leukemia and ionizing radiation." [B.A. 33(3)]

4168 Klein, M. D., et al.
Classification and analysis of maternal deaths in Bronx County, New York, 1946-1957. American Journal of Obstetrics and Gynecology 76(6):1342-1356. Dec. 1958.°

4169 Lancaster, H. O.
Cancer statistics in Australia. Medical Journal of Australia (Sydney), Sept. 13, 1958. Pp. 350-356.°

4170 MacMahon, Brian.
Cohort fertility and increasing breast cancer incidence. Cancer 11(2):250-254. March-April 1958.
"The purpose of the present report is... to examine the question of whether the increase in breast cancer incidence in England and Wales and in Connecticut can be explained by a decrease in the fertility of the cohorts of women in whom the breast cancer increase has been observed. ... Data from the Registrar General's Statistical Review of England and Wales, from the Vital Statistics of the United States, and from reports of the United States Bureau of the Census...."

4171 Mantel, Nathan, and Haenszel, William.
Statistical aspects of the analysis of data from retrospective studies of disease. Journal of the National Cancer Institute 22 (4):719-748. April 1959.
"This paper presents a method for computing relative risks for retrospective study contrasts, which controls for the effects of other variables by use of the basic statistical principle of subclassification of data. The related problem of significance testing is also considered. Since details of statistical treatment are conditioned by study objectives, data collection methods, choice of a control series, and the use of matched or unmatched controls, these topics are also discussed briefly."

4172 Mattila, A.
Maamme sydäntautikuolleisuudesta 30-vuotiskautena 1927-1956 [Heart disease mortality during the thirty-year period 1927-1956]. Duodecim (Helsinki) 74(6): 401-409. 1958.°

4173 Maurer, H. J., and Wendt, H.
Zur Frage des Zusammenhanges zwischen Karzinomhäufigkeit und Geburtsmonat bzw. Blutgruppe [Relation between carcinoma incidence and month of birth or blood group]. Strahlentherapie (Munich) 107(1):144-154. Sept. 1958.°

4174 Neumann, G.
Die Sterblichkeit an Leukämie und Aleukämie in der Bundesrepublik Deutschland von 1948-1956 [Leukemia mortality (including aleukemic cases) in the Federal Republic of Germany from 1948 to 1956]. Deutsche Medizinische Wochenschrift (Stuttgart) 84(5):191-193. Jan. 30, 1959.°

4175 Pauling, Linus.
The relation between longevity and obesity in human beings. Proceedings of the National Academy of Science 44(6):619-622. 1958.
"A discussion of various formulae to de-

termine an accurate and significant correlation between longevity and obesity." [B.A. 33(7)]

4176 Schinz, H. R., and Reich, T.
Statistische Untersuchungen zur Malignomsterblichkeit in der Schweiz. XIV. Wandlungen der Karzinomsterblichkeit in Frankreich und in der Schweiz [Statistical studies on cancer mortality in Switzerland. XIV. Changes in carcinoma mortality in France and Switzerland]. Oncologia (Basel) 11(3-4):312-320. 1958.°
See also 24:Title 1219 and 23:Title 1287.

4177 Schull, William J.
Inbreeding effects on man. Eugenics Quarterly 6(2):102-109. June 1959. Discussion by Richard Levins, pp. 109-111. See Title 4458, this issue.
A review of the findings of recent research with particular reference to the effects of inbreeding on early fetal deaths, stillbirths, and deaths between birth and the age of reproduction (20 years).

4178 Schwanke, W.
[Eighty years of cancer statistics in Hamburg.] Hamburger Ärzteblatt 11(Suppl.): 1-8. 1957.°

4179 Segi, M., et al.
Geographical comparison of deaths from malignant neoplasms; a study of age-adjusted death rates for malignant neoplasms in various countries. Acta; Unio Internationalis contra Cancrum (Louvain) 14(5):591-598. 1958.°

4180 Spain. Instituto Nacional de Estadística.
Estadística del suicidio en España. Años 1951 a 1955 [Statistics of suidice in Spain, 1951-1955]. Madrid, 1958. 171 pp.°

4181 Ungern-Sternberg, Roderich von.
Die Selbstmordhäufigkeit in Vergangenheit und Gegenwart [The frequency of suicide in the past and the present]. Jahrbücher für Nationalökonomie (Stuttgart) 171 (3):187-207. April 1959.
Discusses concepts, frequency rates (analysis of statistical data from Sweden, Switzerland, Germany, and Hungary, including time trends, incidence by sex and age, seasonal distribution), and causes of the high frequency in the present.

4182 Varga, Alajosné.
A halálos kimenetelü öngyilkossági esetek alakulása magyarországon 1957-ben [Suicides in 1957]. Demográfia (Budapest) 2(1):124-129. 1959. With Russian and English summaries.
Analysis of Hungarian data by age, place of residence, season, means. International comparison of suicide rates.

4183 Waaler, Erik, and Grimstvedt, Magne.
The clinical diagnoses of the causes of death and their reliability. Acta Pathologica et Microbiologica Scandinavica (Copenhagen) 43(4):330-338. 1958.
"An investigation of 783 cases where malignant disease was revealed at autopsy, comparing clinician's diagnosis on cause of death and the post-mortem finding." [B.A. 33(4)]

4184 White, Paul D.
Clinical observations on coronary heart disease in epidemiological population studies. American Heart Journal 57(2):203-213. Feb. 1959.
Survey report on a selection of studies made in the period 1954-1958 in various countries on environmental factors in heart disease.

4185 World Health Organization. Expert Committee on Cardiovascular Diseases and Hypertension (1959).
First report. Hypertension and coronary heart disease: classification and criteria for epidemiological studies. World Health Organization, Technical Report Series, No. 168. Geneva, 1959. 28 pp.
A summary of this report appears in: WHO Chronicle 13(4):189-193. April 1959.

4186 World Health Organization. Tuberculosis Research Office.
Tuberculosis surveys in Basutoland, Bechuanaland, and Swaziland, May 1956-July 1957. [Copenhagen, 1958.] 21 pp.°

4187 Yoshioka, H., and Nakamura, M.
Trends in the mortality from cancer in Japan. Yokohama Medical Bulletin 9(5): 329-338. Oct. 1958.°

[See also Titles 4059, 4124, 4126, 4136, 4137, 4142, 4146, 4156, 4363, 4431, 4498, 4499, 4508, 4517]

F. FERTILITY AND NATURAL INCREASE

General Fertility

4188 Baird, D., et al.
Age and human reproduction. Journal of Obstetrics and Gynaecology of the British

Empire (Altrincham) 65(6):865-876. Dec. 1958.

"...have analysed birth records for the city of Aberdeen by maternal age, social class, and parity." [Lancet, No. 7071]

4189 Bickel, Wilhelm.

Zur neueren Entwicklung der ehelichen Fruchtbarkeit und Fruchtbarkeitsunterschiede in der Schweiz [The recent development of marital fertility and differential fertility in Switzerland]. Schweizerische Zeitschrift für Volkswirtschaft und Statistik (Basel) 94(4):440-458. Dec. 1958.

Presentation and discussion of analysis of: (1) trends in marital fertility in the present century, with particular reference to changes in age at marriage and age-specific fertility rates since 1932; (2) fertility differentials based on rural-urban residence, size of place, geographical distribution, economic and religious characteristics, and principal language spoken.

4190 Day, Lincoln H.

The age of women at completion of childbearing; demographic factors and possible social consequences: United States, 1910-1950; a demographic study. Ann Arbor, Mich., University Microfilms, 1958. Microfilm copy of typescript: 189 pp. Abstracted in Dissertation Abstracts 18(4): 1525-1526. 1958.

"The purpose of this study was, first, to determine whether any changes have occurred since 1910 in the ages at which women in the United States complete their childbearing and, second, to describe whatever changes were found to have occurred, assess the demographic factors involved, and suggest the implications of these changes for other aspects of social life. ... The basic materials were derived from the Censuses of 1910, 1940, and 1950. ...all mothers who had not borne an additional child for a period of at least five years were defined as of completed childbearing."

4191 Fikentscher, R.

Die modernen Aufgaben auf dem Gebiete der Fertilitätsforschung und der Sterilitätsbehandlung; Zielsetzung von Tagungen der am Problem interessierten Kreise in Deutschland [Present-day problems in the field of fertility research and sterility therapy; aims of conferences of groups interested in the problem in Germany]. Zentralblatt für Gynäkologie (Leipzig) 80(38):1497-1501. Sept. 20, 1958.°

4192 Johnson, James H.

Marriage and fertility in nineteenth century Londonderry. Journal of the Statistical and Social Inquiry Society of Ireland 20(1):99-117. 1957-58.

Analysis of data available from the censuses of 1841 to 1901 for the county of Londonderry and Ireland as a whole. Discussion of age at marriage, changes revealed by the percentage of married women aged 15-44, and by the level of fertility (average number of children under 5 in relation to number of married women recorded in the censuses). Diagrammatic maps of data on nuptiality and potential fertility for the Irish counties, 1841 and 1901.

4193 Knaggs, J. F.

Natality in Dublin in the year 1955. Journal of the Statistical and Social Inquiry Society of Ireland 20(1):37-55. 1957-58.

Explanation of modifications made in 1955 in the system of recording births. Presentation and discussion of data on month of occurrence, age at maternity and order of birth, duration of marriage, social group, place of occurrence, ex-nuptial births.

4194 Millis, Jean.

The frequency of twinning in poor Chinese in the Maternity Hospital, Singapore. Annals of Human Genetics 23(2):171-174. April 1959.

Report of findings on: The effect of maternal age and birth order on frequency of twinning; Zygosity.

4195 Pasamanick, Benjamin, et al.

Geographic and seasonal variations in births. Public Health Reports 74(4):285-288. April 1959.

Notes on evidence from data on monthly births in the United States in 1955 by state, race, and sex, to support hypotheses accounting for the seasonal trough in the spring months.

4196 U. S. National Office of Vital Statistics.

Vital Statistics — Special Reports. Vol. 47. Selected studies. Washington, 1957-.

Nos. 1-3. See 25:Title 1501.

No. 4. Seasonal variations of births in the United States, 1948-54. By Deward E. Waggoner and Joseph Schachter. April 24, 1959. Pp. 127-144. ["This report is concerned with a factual presentation of the observed patterns of seasonal variation in the birth rate of the United States. It will show the derivation of a seasonal index, compare current (post World War II) patterns with those of earlier years, and indicate the variations noted between races and for different geographical areas of the Nation. Use of a seasonal index in adjust-

ing series of monthly birth rates will be demonstrated."]

[See also Titles 4002, 4004, 4006, 4011, 4033, 4042, 4047, 4101, 4127, 4142, 4148, 4205, 4206, 4230, 4281, 4343, 4411, 4520, 4532]

Differential Fertility

4197 Anastasi, Anne.
Differentiating effect of intelligence and social status. Eugenics Quarterly 6(2):84-91. June 1959. Discussion by Joseph Zubin, pp. 91-93. See Title 4458, this issue.
A generalization of the findings of 59 cited works, as regards socio-economic and educational variables, intelligence test performance and family size, analysis of causal relations, and eugenic implications.

4198 Böök, Jan A.
Fertility trends in some types of mental defects. Eugenics Quarterly 6(2):113-116. June 1959. See Title 4458, this issue.
A general assessment of recent research and of the more important gaps in knowledge.

4199 Essen-Möller, Erik.
Mating and fertility patterns in families with schizophrenia. Eugenics Quarterly 6(2):142-147. June 1959. See Title 4458, this issue.
General summary of the findings of 33 works cited, and a comparison of methods followed in various sample investigations.

4200 Goldberg, David.
The fertility of two-generation urbanites. Population Studies 12(3):214-222. March 1959.
"The purpose of this research is to take another look at socio-economic differences in fertility as they exist in a population of 'pure' urban types. The central hypothesis to be explored is that the inverse pattern, so frequently observed in urban areas, is a function of the differential selectivity of status categories for farm migrants." Report of analysis of data from the Detroit Area Study for the years 1952-1958 that include information on the characteristics of couples and their parents. Findings on the covariance of fertility of women aged 40 and over with urban-rural background, occupation, income, education, and religion are summarized and discussed.

4201 Hamming, G.
Het kindertal bij landarbeiders [The number of children of agricultural workers]. Mens en Maatschappij (Amsterdam) 31(2):81-94. March-April 1956.°

4202 Honda, Tatsuo.
[Analysis of differential fertility.] Jinko Mondai Kenkyu [Journal of Population Problems] (Tokyo), No. 68, June 1957. In Japanese.°

4203 Lewis, Aubrey.
Families with manic-depressive psychosis. Eugenics Quarterly 6(2):130-137. June 1959. Discussion by Ørnulv Ødegaard, pp. 137-141. See Title 4458, this issue.
A general summary of the findings reported in recent research in Western Europe and North America.

4204 Rainer, John D., and Firschein, I. Lester.
Mating and fertility patterns in families with early total deafness. Eugenics Quarterly 6(2):117-127. June 1959. Discussion by W. Edwards Deming, pp. 127-129. See Title 4458, this issue.
Presentation of the findings of a pilot study organized in New York State in 1955 in which the total deaf population of the State of New York and all deaf twins in the eastern half of the United States were listed and various samples were studied by different methods.

4205 Thirring, Lajos.
Vizsgálódások a termékenység alakulásának foglalkozási, társadalmi-gazdasági jellegzetességeiröl [Studies in the occupational, socio-economic characteristics of fertility]. Demográfia (Budapest) 2(1):54-73. 1959. With Russian and English summaries.
Presentation of data and analysis of trends in general fertility in Hungary since 1930, and differentials with particular reference to agricultural groups.

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Presentation and discussion of estimates of personal income by county for 1957 and 1958. Comparison with county data on retail sales per capita. Data also on total personal income by source.

4291 Horstmann, Kurt, and Koller, Siegfried.
Der Umfang der Erwerbstätigkeit im Oktober 1957. Erste Ergebnisse des Mikrozensus [The extent of gainful employment in October 1957. First results of the labor force sample survey]. Wirtschaft und Statistik (Wiesbaden) 11(4):173-184, 173*, 174*. April 1959.
Description of the Mikrozensus, units, and definitions. The results, according to three different concepts of gainful employment, are shown by employment status, type of industry, class of worker, age, sex, hours worked, variously cross-classified.

4292 May, Francis B.
Patterns of change in personal income distribution in Texas: 1929-1957. Texas Business Review 32:7-9. Dec. 1958.°

4293 Peterson, John M., and Malakoff, Robert E.
Arkansas' labor force; the employed, the unemployed, the underemployed, the potential; estimates for 1956. Little Rock, University of Arkansas, College of Business Administration, Industrial Research and Extension Center, 1958. 18 pp.°

4294 Santa-Ritta, G. V. de M.
[The Portuguese agricultural population.] Revista Agronómica (Lisbon) 40:11-18. 1957. In Portuguese.°

4295 Shih Shih Shou Ts'e [Current Affairs Handbook].
China's workers and employees: some figures. Extracts from China Mainland Magazines (Hong Kong), No. 88, June 24, 1957. Pp. 18-19. Translation from Shih Shih Shou Ts'e [Current Affairs Handbook], No. 8, April 21, 1957.
"Total number of workers and employees in China; number of women workers; membership in trade unions; average monthly wages; number of workers covered by labor insurance; culture and education data. Figures for end of 1956 and approximate rates of increase since 1949." [U.S.B.C., P-90, No. 8]

4296 Smolenski, K.
[The matter of proper estimates of occupied population employed in agriculture.] Wiadomości Statystyczne (Warsaw) 3(2): 4-7. March-April 1958. In Polish.°
See also Title 4288, this issue.

4297 U. S. Agricultural Marketing Service.
The hired farm working force of 1957. By Sheridan T. Maitland and Dorothy A. Fisher. Agricultural Information Bulletin No. 208. Washington, Govt. Printing Office, June 1959. 67 pp., processed.
Chapters include: Size and composition

of the hired farm working force; Persons who did 25 days or more of farm wage work [includes special consideration of migratory farm workers]; Persons who did less than 25 days of farm wage work in 1957; Monthly employment of hired farm workers; The hired farm working force, 1948-1957. Appendixes: Method of survey; Schedule. Comparison is made with estimates of monthly employment based on the Current Population Survey.

[See also Titles 4011, 4038, 4040, 4044, 4074, 4106, 4114, 4274, 4310, 4324, 4328, 4336, 4337, 4339, 4340, 4342, 4343, 4346, 4347, 4350, 4351, 4353, 4358, 4365, 4418, 4456, 4464, 4504, 4513, 4522, 4530, 4532]

Social Characteristics

4298 Coste, Jean-Paul, and Glück, Jacques.
La population scolaire d'Aix-en-Provence [The school population in Aix-en-Provence]. Aix, La Pensée Universitaire, 1958. 258 pp.
Report on a sample census, comprising one-third of the total school population in 1958, covering distributions by sex, age, type of establishment, grade, geographical origin (from Aix or elsewhere), and parents' occupation. Comparison with situation in 1950. [P.R.T. 14(1)]

4299 Desabie, J.
Sociologie religieuse dans la Seine: recensement du 14 mars 1954 [The sociology of religion in the Seine Department; census of March 14, 1954]. Revue de l'Action Populaire (Paris), July-Aug. 1958. Pp. 815-823.
Catholic religious practice and the factors of sex, age, family situation, occupation, and social class. [B.A.D. 13(9-10)]

4300 France. Insitut National d'Etudes Démographiques.
Le développement de la scolarisation en France [Growth of the school population in France]. By R[oland] Pr[essat]. Population (Paris) 14(1):141-145. Jan.-March 1959.
Summary of data from a Ministry of Education survey of the secondary school population in October 1958 and comparison with that of the previous year.

4301 Israel. Central Bureau of Statistics.
Literacy of adult population, 1957. Statistical Bulletin of Israel (English summary) 9(4-7):219-237. March 1958.
"An investigation of literacy was included within the framework of the Labour Force Survey of June 1957." It included 1 per cent of the Jewish and 2 per cent of the non-Jewish population over 14. Explanations and tables.

4302 Leviton, Bertha.
Census of Puerto Rican and foreign-born pupils: provisional report. New York, New York City Board of Education, Bureau of Administrative and Budgetary Research, Feb. 1956. 29 pp.
Census of October 31, 1955. [P.R.U.S.]

4303 New York State. University of the State of New York.
Projections of public school enrollments in New York State 1957-58 to 1967-68. By Catherine M. Dearstyne. Education Inventory Series, 1958, No. 5. Revised Jan. 1959. Albany, 1959. 33 pp., processed.

[See also Titles 4037, 4074, 4113, 4124, 4274, 4343, 4365, 4371, 4390, 4532]

Ethnic Characteristics

4304 Barrack, B. B.
The future of the Australian aboriginal. Medical Journal of Australia (Sydney) 45, 2 (23):764-767. Dec. 6, 1958.°

4305 Briggs, L. Cabot.
The living races of the Sahara Desert. Papers of the Peabody Museum of Archaeology and Ethnology, Vol. 28, No. 2. Cambridge, Mass., 1958. xii, 217 pp.
"Although Briggs' avowed purpose is to summarize 'our present knowledge of the ecology and racial characteristics of the living tribes of the Sahara Desert,' the greater part of the book is given over to a résumé of the archeological and historical background and the ethnological present of the Saharan peoples. ... In his assessment of the physical types and their interrelationships, Briggs places much weight on resemblances and differences in the A, B, O blood group percentages of populations...." [Science 129(3357)]

4306 Bruk, S. I.
Etnicheskii sostav i razmeshchenie naseleniia v Sin'tszianskom Uigurskom Avtonomnom raione Kitaiskoi Narodnoi Respubliki [Ethnic composition and distribution of the population in Sinkiang Uigur Autonomous Region, Chinese People's Republic]. Sovetskaia Etnografiia (Moscow), No. 2, 1956. Pp. 89-94, and folding map.
"Brief description of ethnic groups; population data for 1953; map showing present

location of peoples of Sinkiang." [U.S.B.C., P-90, No. 8]

4307 Bruk, S. I.
Rasselenie natsional'nykh men'shinstva Kitaiskoi Narodnoi Respubliki [The geographical distribution of the national minorities in the People's Republic of China]. Sovetskaîa Etnografiîa (Moscow), No. 1, 1958. Pp. 75-89, with 2 folding maps.

4308 Buesa Oliver, Tomás, and Flórez, Luís.
El atlas lingüístico-etnográfico de Colombia (ALEC). De Thesaurus, Boletin del Instituto Caro y Cuervo, Tomo X, Nos. 1,2, and 3, 1954. Bogotá, Instituto Caro y Cuervo, 1954, i.e. 1956. 171 pp., and folding map.
Tables. Bibliographical footnotes. [L.C.C.D. April 1959]

4309 Froelich, J. C.
Carte des populations de l'Afrique Noire [Map of the populations of Black Africa]. France, Direction de la Documentation, Carte No. 71. Paris, Direction de la Documentation, 1955. Scale ca. 1:5,000,000. In upper margin: Centre des Hautes Etudes d'Administration Musulmane. Conseil Supérieur des Recherches Sociologiques d'Outre-Mer. ["Shows ethnographic distribution in western Africa south of the Sahara to the Congo Basin." L.C.C.D., May 1959]
Idem. Notice et catalogue. Paris, Documentation Française, 1955. xxx, 113 pp.°

4310 Métraux, Alfred.
The social and economic structure of the Indian communities of the Andean region. International Labour Review (Geneva) 79 (3):225-243. March 1959.
The discussion includes estimates of the density of the Indian population in Ecuador, Peru, and Bolivia, the nature of the Indian community, political organization, family structure, the special conditions on haciendas, economic organization, and internal migration.

4311 Shebel', I. B.
Natsional'noe stroitel'stvo v Sin'tszianskom Uigurskom Avtonomnom raione Kitaiskoi Narodnoi Respubliki [National construction in Sinkiang Uigur Autonomous Region, Chinese People's Republic]. Sovetskaîa Etnografiîa (Moscow), No. 2, 1956. Pp. 95-105.
"Formation of Sinkiang Autonomous Region, September 1955; description of administrative units, nationality composition of each, distribution (size and location) of ethnic groups; brief comments on native language press, health institutions, and education." [U.S.B.C., P-90, No. 8]

4312 Shih Shih Shou Ts'e [Current Affairs Handbook].
The existing national autonomy areas in China. Current Background (Hong Kong), No. 430, Dec. 10, 1956. Pp. 4-10. Translation from Shih Shih Shou Ts'e [Current Affairs Handbook], No. 19, Sept. 10, 1956.
"Current data on 45 ethnic minorities in 72 nationality areas in Communist China in tabular form. Type of economy, language, religion, and location of the administrative divisions of each group." [U.S.B.C., P-90, No. 8]

4313 Tsung Yun.
China's national minorities. People's China (Peiping), No. 11, 1954. Pp. 17-23.
"Names of the tribes, size of population, centers of settlement, and their economic, cultural, and religious life." [U.S.B.C., P-90, No. 8]

[See also Titles 4011, 4022, 4032, 4037, 4050, 4051, 4056, 4108, 4285, 4302, 4362, 4363, 4365, 4459, 4463, 4532]

K. DEMOGRAPHIC AND ECONOMIC INTERRELATIONS

Demographic Factors and Resources

4314 Baade, Fritz.
Weltbevölkerung und Weltenergiewirtschaft [World population and world energy economy]. Aussenpolitik (Stuttgart) 8(4): 229-237. April 1957.°

4315 Bansil, P. C.
India's food resources and population; a historical and analytical study. Bombay, Vora and Co., 1958. 252 pp.
"The author begins with a historical survey of the food situation in India, then attempts to assess the potential for food production in the country...and finally proceeds to strike a balance between probable future food requirements based on population and consumption trends, and production prospects." [I.L.R. 79(6)]

4316 Kroef, Justus M. van der.
Indonesia's human resource pattern. Journal of Geography 58(4):186-194. April 1959.°

4317 Reserve Bank of New Zealand.
Food and people: a series of articles on

world population, food production and consumption. Wellington, 1958. 44 pp. Reprinted from the Reserve Bank of New Zealand Bulletin, May 1955-Feb. 1957.°

4318 Wirsing, J.
Die Menschenlawine: der Bevölkerungszuwachs als weltpolitisches Problem [The human avalanche; population growth as a world political problem]. Stuttgart, Deutsche Verlags-Anstalt, 1956. 108 pp.°

[See also Title 4320]

Economic Growth

4319 Agarwala, A. N., and Singh, S. P., Editors.
The economics of underdevelopment. A series of articles and papers selected by.... Bombay and London, Oxford University Press, 1958. 510 pp.
Contents: Approaches to the problem of underdevelopment; The historical context; The theoretical context; External economies and balanced growth; Unemployment and factor-disequilibrium; Models of development. [P.A.I.S. 45(32)]

4320 Canet, Gerardo.
Los espacios productivos y la población en el desarrollo económico de Cuba [Productive areas and population in the economic development of Cuba]. Revista Bimestre Cubana (Havana) 77:177-193. Jan.-June 1957.°

4321 Galan, C. de.
Welvaartsstijging en bevolkingsgroei [Economic advance and population growth]. Maandschrift Economie (Tilburg) 23(4): 205-216. Jan. 1959.
Presents and discusses a reformulation of the interrelations of time trends in the aggregates of national capital, national income, net investment, net saving, and population size, with application to different stages and types of development. See also 25:Title 3344.

4322 George, Pierre.
Les problèmes posés par l'accroissement urbain spontané dans les pays en cours de développement [The problems posed by spontaneous urban growth in developing countries]. Université de Paris, Institut d'Etude du Développement Economique et Social, Publications, [No. 3]. [Paris], 1958. 18 pp., processed.°

4323 Hagen, Everett E.
Population and economic growth. American Economic Review 49(3):310-327. June 1959. [Construction of an alternative model illustrating the interrelation of income-induced population growth and growth in per capita income, comparison with the Malthusian model, and discussion of the relevance of the new model to three empirical types of population growth and of applications in the estimating of future growth.]
Population and economic growth. Cambridge, Massachusetts Institute of Technology, Center for International Studies, 1958. (C/58-14). 37 pp. [A preliminary version of the paper cited above.]

4324 Hanna, Frank A.
Relative growth among regions. Bulletin de l'Institut International de Statistique (Stockholm) 36(4):143-159. 1958. With French summary.
Presentation of empirical data on growth of per capita personal income in each of the 48 states and the District of Columbia, 1929-1954, and discussion of general problems of measuring relative growth illustrated by the analysis of these data.

4325 Kuznets, Simon.
Quantitative aspects of the economic growth of nations. IV. Distribution of national income by factor shares. Economic Development and Cultural Change 7 (3, Part II):1-100. April 1959.
For citation to parts I-III, see 23:Title 2350, 24:Title 1405, and 25:Title 1358.

4326 Lerner, Daniel, and Wiener, A. J., Editors.
A special issue on: Attitude research in modernizing areas. Public Opinion Quarterly 22(3):217-420. Fall 1958.
Articles are grouped under the headings: Research experiences, problems, methods; The modernizing of values, images, attitudes; The emergence of popular politics; The socio-economic factors of modernization.
Partial contents:
Robinson, Richard D. Turkey's agrarian revolution and the problem of urbanization. [Includes discussion of the actual size of the rural-urban shift, 1927-1955.]
Armstrong, Lincoln, and Bashshur, Rashid. Ecological patterns and value orientations in Lebanon. [Report on findings of opinion survey of 136 adult residents from 13 villages and the district capital in the Bekaa Valley. Correlations of attitudes toward modern values with respondents' religion and occupation.]

4327 Macura, M.
[The factor of population in the future

production development of Yugoslavia.] Ekonomist (Belgrade) 11(1/2):42-59. 1958. In Serbo-Croatian, with English and French summaries.°

4328 Maddison, Angus.
Economic growth in Western Europe 1870-1957. Banca Nazionale del Lavoro Quarterly Review (Rome), No. 48, March 1959. Pp. 58-102.

Study of the economic area comprising Denmark, Germany (F.R.), Italy, Netherlands, Norway, Sweden, and the United Kingdom, made preparatory to the long-term forecasting of economic growth. Appendix tables give annual data, 1870-1957, on: gross national product (GNP); population; population of working age; labor force; unemployment as percentage of the labor force; annual hours worked per head; GNP per man hour; share of domestic investment in GNP at current prices.

4329 Research Center in Economic Development and Cultural Change.
[Special issue on problems of Indian economic growth.] Economic Development and Cultural Change 7(3, Part I):194-376. April 1959.

See Titles 4116, 4332, and 4380, this issue for citations of articles of demographic interest.

4330 Riccardi, R.
La población en el progreso económico [Population and economic progress]. Boletin de Estudios Económicos (Bilbao), Vol. 13, No. 43. Jan.-April 1958.°

4331 Sauvy, Alfred.
La población activa y la migración profesional, en relación con el desenvolvimiento económico [The active population and occupational migration in relation to economic development]. Investigación Económica (México, D.F.) 18:391-399. 1958.°

4332 Sinha, J. N.
Population growth and balance in economic development. Economic Development and Cultural Change 7(3, Part I):206-215. April 1959.

Presentation of a model for India of growth and income projections with two integrated sectors — the agricultural and the non-agricultural — under two alternative assumptions of rate of population growth. Consideration of the employment implications and the balance between demand and supply and terms of trade.

4333 United Nations. Economic Commission for Asia and the Far East.
Population trends and related problems of economic development in the ECAFE region. Pre-print of: Economic Bulletin for Asia and the Far East (Bangkok) 10(1):1-47. June 1959.

"This is the first of a series of studies on 'Population Growth and Economic Development' prepared by the Secretariat of the Economic Commission for Asia and the Far East, in close collaboration with the Bureau of Social Affairs at United Nations Headquarters. ... The present text is a revision of a preliminary report (document ECAFE/28) which was issued on 28 February, 1958. ... The present paper reviews the existing and prospective population trends and analyses the retarding effect which, on various assumed conditions, rapid population growth can be expected to have on the economic development of countries with a low income and limited cultivable land or other natural resources. Reference is made, in particular, to the effect on food supply, capital requirements and the supply of savings."

[See also Titles 4016, 4017, 4019, 4031, 4076, 4077, 4101, 4120, 4122, 4337, 4340, 4347, 4355, 4380, 4469]

Labor-Force Participation

4334 Bhatia, R. J.
Disguised unemployment and saving potential. Indian Economic Review (Delhi) 4(2):33-38. Aug. 1958.

Analysis of the concept of disguised unemployment to "see how, if at all, this concept differs from the other related concept of 'excess population.'" The second part of the article "attempts to formalise the Nurksian Multiplier in order to analyse its logic more carefully."

4335 Carlucci, G. C.
Un modello generale ed un modello econometrico dell'occupazione in Italia [A general model and an econometric model of employment in Italy]. L'Industria; Rivista di Economia Politica (Milan), No. 4, 1958. Pp. 495-539.

4336 Evdasin, M. I.
Pravovye voprosy podgotovki i ispol'zovaniîa molodykh rabochikh [Examination of the law on the preparation and utilization of young workers]. Moscow, Vsesoîûznoe Uchebno-pedagogicheskoe Izdatel'stvo Trudrezervizdat, 1957. 38 pp.

"This brochure by M. I. Evdasin deals with the entry into employment of young skilled workers under the system of labour reserves in the Soviet Union. The author

systematically describes the legislation and regulations on the method of entry into employment of young people fresh from the labour reserves schools." [I.L.R. 79(2)]

4337 France. Commissariat Général au Plan. Commission de la Main-d'Oeuvre.
Rapport général de la Commission de la Main-d'Oeuvre du Commissariat Général au Plan [General report of the Manpower Committee of the Commissioners General for State Planning]. Revue Française du Travail 12(2):1-264. April-June 1958.
After an introduction and preliminary summary of the report, Part I deals with employment forecasts for 1961 in the framework of the Third Plan. Part II deals with employment policy under the plan. Statement of general conclusions. 13 annexes present additional tables, specimen forms, and notes. For summary in English see the paper cited in Title 4340, this issue.

4338 Hasan, Parvez.
Non-inflationary mobilization of surplus labour. Pp. 94-106 in: State Bank of Pakistan. Research Department. Selected papers on Pakistan economy. 1958.
Problem of efficient utilization of the labor force. [P.A.I.S. 45(31)]

4339 India. Labour Bureau and the Planning Commission, Labour and Employment Division.
Women in employment (1901-1956). New Delhi, Aug. 1958.
See Title 4342, this issue.

4340 International Labour Office.
Employment forecasting and manpower policy in France. International Labour Review (Geneva) 79(2):189-203. Feb. 1959.
Discussion of the background and summary of the contents of the report cited in Title 4337, this issue.

4341 International Labour Office.
Labour mobility in the United States. International Labour Review (Geneva) 79(3): 296-314. March 1959.
"The following pages, after a short factual description of general trends in labour mobility in terms of actual job shifts, will examine the part played by migration in reducing localised unemployment, and the measures taken or envisaged to facilitate such movements and to counteract labour shortages."

4342 International Labour Office.
Women in employment in India. International Labour Review (Geneva) 79(4):440-444. April 1959.
A summary of certain aspects of the study cited in Title 4339 covering the major trends in employment of women, 1901-51, the recent trends, 1950-56, and the current occupational distribution of women workers and their general occupational outlook.

4343 Poplujko, A.
Manpower resources and the seven-year plan. Bulletin of the Institute for the Study of the U.S.S.R. (Munich) 6(4):24-31. April 1959.
Includes quantitative estimates compiled or calculated by the author on: Growth in the population of the U.S.S.R., 1950-65; 1956 manpower resources; Number of pupils in Soviet general-educational schools, 1948-57; Number of births in the Soviet Union, 1939-50; A breakdown of the working population of the U.S.S.R., 1940-56; The Soviet working population in 1965; Supply of manpower for the seven-year plan, 1959-65.

4344 Soper, Tom.
Labour migration in Africa. Journal of African Administration 11(2):93-99. April 1959.
Discusses the extent of participation in wage employment of able-bodied males aged 16-45 in the territories of East, Central and Southern Africa, the causes of migrant characteristics, and changing attitudes toward labor migration since the second World War.

4345 Sovani, N. V.
Underemployment, removable surplus and the savings fund. Artha Vijñāna (Poona) 1(1):17-29. March 1959. In English with summary in Bengali.
Continues the theoretical discussion of "(a) the measurement and extent of invisible or disguised underemployment and the removable surplus population; (b) the extent and significance for economic development of the 'savings fund' concealed in it."

4346 Umemura, M.
[The structure and behavior of the labor force.] Keizai Kenkyu [Economic Review] (Hitotsubashi University, Tokyo) 8(3):227-233. July 1957. In Japanese.
A study of labor-force participation rates over long-run and short-run periods, based on data of the Japanese Bureau of Statistics' Labor Force Survey. [J.S.R.,5]

4347 U. S. Bureau of Labor Statistics.
Labor and labor relations on the West Coast. [A group of 15 articles.] Monthly Labor Review 82(5):489-582. May 1959.
Partial contents:
Gordon, Margaret S. Immigration and

its effect on labor force characteristics. Pp. 492-501.

Baker, Miner H. Economic growth patterns in Washington and Oregon. Pp. 502-508.

Gershenson, Maurice I. Shifts in California's industrial and employment composition. Pp. 509-517.

Fuller, Varden. Farm labor: supply, policies, and practices. Pp. 518-523.

4348 U. S. Bureau of Labor Statistics.
Population and labor force projections for the United States, 1960 to 1975. Prepared by Sophia Cooper and Stuart Garfinkle. Bulletin No. 1242. Washington, Govt. Printing Office, 1959. iv, 56 pp., processed.

Presentation of projections of population, total labor force, labor-force participation rates, and persons at work by full-time and part-time status, by age and sex for 1960, 1965, 1970, 1975. Discussion of methodology, reliability of results, and implications for planning.

4349 Universidad de Chile. Instituto de Economía.
Ocupación y desocupación, Gran Santiago, Valparaiso, Viña del Mar, junio 1958. Informe preliminar [Employment and unemployment in...June 1958. Preliminary report]. Bound Pamphlets on Unemployment, No. 19. Santiago, 1958. 33 pp., processed.°

[See also Titles 4004, 4048, 4114, 4287, 4291, 4293, 4297, 4328, 4365, 4456]

Occupation and Industry

4350 Deenen, B. von.
Arbeitnehmer in ländlichen Räumen: eine repräsentative Untersuchung in der Bundesrepublik 1955/56 in Gemeinden unter 5000 Einwohner [Workers in rural areas; a sample survey in the German Federal Republic 1955/56 in communities with less than 5000 residents]. Bonn, Forschungsgesellschaft für Agrarpolitik und Agrarsoziologie, 1958. 198 pp.°

4351 Estrangin, Louis.
La population agricole française: recherches pour la connaître mieux et prévoir son avenir. Attitudes à prendre en fonction de son évolution [The French agricultural population: research for its better understanding and for forecasting its future. Attitudes to be taken toward its development]. Economie Rurale: Bulletin de la Société Française d'Economie Rurale (Paris), No. 37, July 1958. Pp. 51-62.

Review of recent research on age structure and distribution by departments. Outline of future study of migration, and social and economic conditions. Evaluation of findings as a basis for policy.

4352 Gordon, Cecil, et al.
The age distribution of an industrial group (Scottish railwaymen). Population Studies 12(3):223-239. March 1959.

Presentation of data and analysis of the relation between the age distributions and the age-specific sickness rates of a stratified industrial group. Projections of the sickness absence rates on various assumptions as to recruitment policy with reference to age.

4353 Pressat, Roland.
Structure démographique de la population active agricole [Demographic structure of the active agricultural population]. Economie Rurale: Bulletin de la Société Française d'Economie Rurale (Paris), No. 37, July 1958. Pp. 3-8.

Summary of data from the I.N.E.D. on the effects of natural movements and occupational migration on the age structure of the agricultural labor force in France, 1901-1970.

4354 Slepian, S. G.
Izmeneniia v naselenii Rumynskoi Narodnoi Respubliki v sviazi s industrializatsiei [Population changes in the Romanian People's Republic in connection with industrialization]. Izvestiia Akademii Nauk SSSR, Seriia Geograficheskaia [Bulletins of the Academy of Sciences of the USSR, Geographical Series], No. 1, Jan.-Feb. 1959. Pp. 98-103.°

[See also Titles 4019, 4100, 4251, 4291, 4297, 4339, 4342, 4347, 4361, 4362, 4371, 4402, 4460, 4530]

Business Fluctuations

4355 Minsky, Hyman P.
A linear model of cyclical growth. Review of Economics and Statistics 41(2, Part 1):133-145. May 1959.

"We will work with a slightly modified version of Samuelson's model.... Formally, it will be shown that the simple linear accelerator-multiplier model can be used as a flexible framework for the analysis of both economic growth and business cycles and that there is no analytical need to separate the two problems: that is, the model generates both the trend and the cycle."

[See also Title 4104]

Economic Dependency

4356 Abramovitz, Moses, et al.
The allocation of economic resources. Essays in honor of Bernard Francis Haley. Stanford Studies in History, Economics, and Political Science, 17. Stanford, Stanford University Press, 1959. [ix], 244 pp.
Partial contents:
Abramovitz, Moses. The welfare interpretation of secular trends in national income and product.

4357 Elwood, Thomas.
Some observations on social security and the aged. Journal of the Statistical and Social Inquiry Society of Ireland 20(1):56-68. 1957-58.
Considers the nature and extent of the problem due to the changing age structure of the nation; statutory and non-statutory financial provision for old age; the provision of accommodation. Data pertain to Great Britain and Northern Ireland.

[See also Title 4027]

Other Economic Variables

4358 Capuñay y Mimbela, Carlos.
La renta nacional y la población [National income and the population]. Revista de la Facultad de Ciencias Económicas y Comerciales, Lima, No. 54, Jan.-June 1956. Pp. 211-214.°

4359 Ruprecht, Theodore K.
The cost of child mortality in developed and underdeveloped countries. Pp. 21-24 in: Proceedings of the thirty-third annual conference of the Western Economic Association at Pullman, Washington, August 13-15, 1958. Edited by Lawrence Nabers. N.p., 1959. 75 pp.
"The method of estimation is a refinement of Hansen's [see 23:Title 4349] and a correction of Ghosh's method [see 14(1): Title 18]."

[See also Titles 4044, 4098]

L. OTHER INTERRELATIONS

Demographic and Social Factors

4360 Betancur, Jorge E., S. J., and De Sousa, Luis Garcia, S. J.
Current population changes in Latin America and the implications for religious institutions and behavior. Reprinted from: American Catholic Sociological Review, Spring 1959. 18 pp.
Includes evaluation of current data and research needs.

4361 Collison, Peter, and Mogey, John.
Residence and social class in Oxford. American Journal of Sociology 64(6):599-605. May 1959.
Analysis of 1951 census tract data on the distribution of males aged 15 and over by occupational class and residential zone. Computation and interpretation of indexes of centralization.

4362 Duncan, Otis Dudley, and Lieberson, Stanley.
Ethnic segregation and assimilation. American Journal of Sociology 64(4):364-374. Jan. 1959.
Report of a test of hypothetical interrelations by an analysis of U. S. census data of 1930 and 1950 on residential patterns, occupational distributions, and other socio-economic characteristics of selected foreign-born white groups and Negroes in Chicago.

4363 Gibbs, Jack P., and Martin, Walter T.
Status integration and suicide in Ceylon. American Journal of Sociology 64(6):584-591. May 1959.
Report of an analysis of data from the 1946 census and 1946-1949 vital statistics on the relation between marital status and suicide rates by sex and ethnic group, to test the validity of hypothetical interrelations developed in studies of Western society.

4364 Merton, Robert K., et al., Editors.
Sociology today: problems and prospects. Edited...under the auspices of the American Sociological Society. New York, Basic Books, 1959. xxxiv, 624 pp.
Revised texts of a series of papers on the "problematics" of the major divisions of sociology presented at the annual meeting of the American Sociological Society in 1957. Section IV, Problems in demographic and social structure, contains:
Davis, Kingsley. The sociology of demographic behavior. [See Title 4004, this issue.]
Sjoberg, Gideon. Comparative urban sociology.
Anderson, C. Arnold. Trends in rural sociology.
Simpson, George E., and Yinger, J. Milton. The sociology of race and ethnic relations.
Gouldner, Alvin W. Organizational anal-

ysis.

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Bennett, John C. Protestant ethics and population control.

4382 Enke, Stephen.
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4388 Pour la Vie: Revue d'Etudes Familiales.
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O. ORGANIZATION & ADMINISTRATION

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4441 Israel. Civil Service Commission.
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4444 Tai, S. K.
1953 population census of China. Calcutta, Indian Statistical Institute, 1956. 23 pp.
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4445 [U.S.S.R. All-Union Congress of Statisticians.]
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Proceedings, containing extensive sections on plans for the 1959 census.

4446 U.S.S.R. TSentral'noe Statisticheskoe Upravlenie.
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Text and discussion of a report by Deputy Chief P. G. Pod'iachikh presented at a meeting at the Central Statistical Administration of the U.S.S.R. Topics: distribution of the population into urban and rural; sex composition; age structure; marital status; family composition; distribution by nationality; cultural level; economic activity by principal branch, industry, type of economic organization, and establishment; occupational structure; distribution of the population by origin of main income; social composition of the population.

4447 [U.S.] American Consulate General, Hong Kong.
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4517 Norway. Statistisk Sentralbyrå.

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Spain

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U. S. S. R.

4518 U.S.S.R. TSentral'noe Statisticheskoe Upravlenie.

O predvaritel'nykh itogakh Vsesoiuznoi perepisi naseleniia 1959 goda. Dlia pechati. Opu'likovano v gazetakh "Pravda" i "Izves-

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Israel

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Japan

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STATISTICS

COMPLETE EXPECTATION OF LIFE ($\mathring{e}_x$) AT VARIOUS AGES

IN SELECTED COUNTRIES /1

These figures are the most recent available since 1939 and are, with some exceptions, for countries with populations of 100,000 or more. No adjustment has been made for deficiencies, which in some cases may be serious. Unless otherwise noted the figures were taken from publications of the United Nations Statistical Office, which present mainly data officially submitted by governments.

Country	Years	Sex	Age					
			0	1	10	20	40	60
North America								
Barbados /a	1945-47	M	49.17	57.43	51.82	42.66	26.05	13.23
		F	52.94	61.64	55.80	46.79	30.39	15.80
British Honduras /b	1944-48	M	44.99	50.48	46.86	38.78	25.29	13.18
		F	48.97	54.29	49.95	42.18	29.22	15.94
Canada	1950-52	M	66.33	68.33	60.15	50.76	32.45	16.49
		F	70.83	72.33	64.02	54.41	35.63	18.64
Costa Rica	1949-51	M	54.65	59.97	55.59	46.50	29.70	14.85
		F	57.05	61.58	57.22	48.00	31.21	15.84
El Salvador	1949-51	M	49.94	54.31	52.85	44.48	30.24	16.94
		F	52.40	56.35	54.99	46.50	31.53	17.40
French West Indies/c	1951-55	M	55.4	58.1	52.1	42.8	26.4	13.8
		F	59.2	61.4	55.4	46.1	30.3	16.5
Guatemala	1949-51	M	43.82	48.28	48.56	41.08	26.86	14.73
		F	43.52	47.17	47.68	40.27	26.94	14.26
Haiti /d	1950	M, F	32.61	38.37	38.87	34.41	24.38	15.54
Jamaica (ex. dep.)	1950-52	M	55.73	59.85	54.46	45.26	28.63	14.30
		F	58.89	62.42	56.68	47.74	31.45	16.49
Leeward Islands	1946	M	49.53	55.03	50.17	41.19	26.06	-
		F	54.76	59.58	54.44	45.63	29.90	-
Mexico /2	1950	M	46.67	52.35	51.12	42.73	28.24	15.32
		F	49.85	54.92	54.36	45.80	30.38	15.96
Panama /e	1952-54	M	60.41	63.31	57.87	48.98	31.88	16.76
		F	63.09	65.78	60.29	51.34	34.70	19.15
Trinidad and Tobago	1954-56	M	59.81	63.17	55.67	46.22	28.43	13.53
		F	63.13	65.81	58.15	48.79	31.62	16.51
U. S., Continental	1949-51	M	65.47	66.73	58.35	48.92	30.79	15.68
		F	70.96	71.84	63.38	53.73	35.06	18.50

Complete Expectation of Life ($\mathring{e}_x$) at Various Ages

in Selected Countries (Continued)

Country	Years	Sex	Age 0	1	10	20	40	60
U. S. (continued)								
Whites /3	1956	M	67.3	68.2	59.6	50.1	31.6	15.9
		F	73.7	74.2	65.6	55.9	36.7	19.3
Nonwhites /3	1956	M	61.1	63.1	54.8	45.4	28.5	15.2
		F	65.9	67.4	59.1	49.4	31.8	17.9
South America								
Argentina	1947	M	56.9	61.7	54.7	45.6	28.2	13.8
		F	61.4	65.7	58.7	49.6	32.4	16.5
Bolivia	1949-51	M	49.71	56.11	54.79	46.99	33.40	20.39
		F	49.71	55.92	54.79	47.23	32.89	19.20
Brazil /f	1940-50	M	39.3	-	-	-	-	-
British Guiana /g	1945-47	M	49.32	53.66	47.63	38.71	23.03	11.13
		F	52.05	55.89	49.79	41.32	27.30	14.18
Chile	1952	M	49.84	56.83	51.39	42.67	27.25	13.99
		F	53.89	60.62	55.71	47.08	31.33	16.42
Venezuela /4	1950-51	M	56.34	60.54	55.11	46.18	29.84	15.70
		F	58.76	62.37	57.29	48.29	32.27	17.48
Europe								
Austria	1949-51	M	61.91	65.90	58.02	48.68	30.74	15.12
		F	66.97	70.09	62.15	52.62	34.20	17.27
Belgium	1946-49	M	62.04	65.25	57.36	48.02	30.61	15.45
		F	67.26	69.72	61.71	52.27	34.20	17.45
Czechoslovakia /5	1956	M	66.65	68.06	59.69	50.17	31.77	15.59
		F	71.63	72.66	64.20	54.46	35.49	18.07
Denmark (ex. Faeroes)	1951-55	M	69.87	71.16	62.74	53.09	34.38	17.50
		F	72.60	73.35	64.78	54.99	35.89	18.44
Finland	1951-55	M	63.4	64.7	56.5	47.0	29.2	14.1
		F	69.8	70.9	62.5	52.8	34.2	16.9
France	1952-56	M	65.04	66.78	58.48	48.90	30.68	15.24
		F	71.15	72.44	64.09	54.36	35.58	18.54
Germany								
Democratic Rep.	1954-55	M	66.20	68.97	60.82	51.28	32.78	16.32
		F	70.15	72.28	64.00	54.30	35.56	18.18
Federal Rep. /6 (ex. Saar)	1955	M	66.04	68.23	59.93	50.41	32.11	15.79
		F	70.64	72.35	63.92	54.18	35.28	17.78
Hungary*	1955	M	64.74	68.29	60.09	50.62	32.27	15.88
		F	68.69	71.43	63.19	53.51	34.73	17.49

Complete Expectation of Life ($\mathring{e}_x$) at Various Ages

in Selected Countries (Continued)

Country	Years	Sex	Age 0	1	10	20	40	60
Iceland	1941-50	M	66.1	67.4	59.5	50.5	34.3	18.2
		F	70.3	71.3	63.2	54.0	36.5	19.6
Ireland	1950-52	M	64.53	66.88	58.81	49.31	31.31	15.40
		F	67.08	68.80	60.61	51.15	33.28	16.83
Italy	1950-53	M	63.75	67.33	59.80	50.37	32.07	16.01
		F	67.25	70.42	62.88	53.32	34.73	17.48
Luxembourg	1946-48	M	61.69	65.17	57.36	48.04	30.26	15.08
		F	65.75	68.59	60.78	51.51	33.43	16.87
Netherlands	1953-55	M	71.0	71.8	63.4	53.7	34.8	17.8
		F	73.9	74.3	65.7	56.0	36.7	18.9
Norway	1951-55	M	71.11	71.95	63.65	54.11	35.54	18.52
		F	74.70	75.21	66.72	56.96	37.79	19.93
Poland	1952-53	M	58.6	64.3	56.8	47.6	30.1	14.7
		F	64.2	69.0	61.4	52.0	34.0	17.3
Portugal	1955-56	M	58.8	63.9	57.9	48.5	30.5	14.8
		F	63.8	68.6	62.8	53.3	34.8	17.6
Spain	1950	M	58.76	63.12	56.54	47.50	36.65	15.18
		F	63.50	67.63	61.16	52.03	34.55	17.69
Sweden	1951-55	M	70.49	71.11	62.67	53.10	34.42	17.38
		F	73.43	73.71	65.12	55.36	36.22	18.61
Switzerland	1948-53	M	66.36	67.81	59.64	50.16	31.88	15.69
		F	70.85	71.06	63.55	53.86	35.02	17.77
United Kingdom								
England and Wales/7.	1957	M	67.9	68.6	60.1	50.4	31.5	15.2
		F	73.6	74.1	65.5	55.7	36.6	19.1
Northern Ireland	1954-56	M	67.36	68.74	60.21	50.52	31.69	15.53
		F	71.05	72.13	63.52	53.75	34.74	17.56
Scotland	1955-57	M	65.90	67.14	58.66	49.03	30.29	14.50
		F	71.07	71.93	63.33	53.56	34.57	17.46
Yugoslavia								
Croatia	1952-54	M	59.17	65.61	58.37	48.94	30.84	14.91
		F	63.46	69.26	62.06	52.54	34.17	17.08
U. S. S. R.	1955-56	M	63	-	-	-	-	-
		F	69	-	-	-	-	-
Asia								
Ceylon*	1954	M	60.3	64.3	60.2	51.0	33.1	16.6
		F	59.4	62.7	59.3	50.3	33.6	16.8

Complete Expectation of Life ($\mathring{e}_x$) at Various Ages

in Selected Countries (Continued)

Country	Years	Sex	Age 0	1	10	20	40	60
Cyprus	1948-50	M	63.6	67.3	60.3	50.9	32.9	16.9
		F	68.8	72.6	65.4	55.8	37.2	19.5
India /h	1941-50	M	32.45	39.00	38.97	33.03	20.53	10.13
		F	31.66	37.30	39.45	32.90	21.06	11.33
Israel (Jews)	1957	M	68.0	69.6	61.3	52.0	33.4	16.4
		F	71.4	72.6	64.4	54.7	35.6	18.1
Japan /i	1957	M	63.24	65.01	57.32	47.87	30.04	14.14
		F	67.60	68.75	61.02	51.48	33.39	16.59
Philippines	1946-49	M	48.81	54.74	54.64	45.98	31.14	17.72
		F	53.36	58.62	56.22	47.27	32.26	18.45
Ryukyu Islands /8	1955-57	M	65.8	65.5	58.3	48.9	31.7	16.3
		F	72.0	71.7	64.4	55.2	37.4	20.2
Thailand	1947-48	M	48.69	52.00	47.87	39.81	25.56	12.69
		F	51.90	55.20	50.90	42.71	28.43	14.20
Africa								
Belgian Congo								
African population /j	1950-52	M	37.64	42.45	41.40	34.41	21.48	10.63
		F	40.00	44.14	43.23	36.29	23.33	12.27
Mauritius (ex. dep.)	1951-53	M	49.79	54.71	49.23	40.11	23.58	11.18
		F	52.29	56.74	52.22	43.67	28.75	14.59
Réunion	1951-55	M	47.50	53.80	49.80	40.80	25.10	12.40
		F	53.40	59.30	56.10	47.10	31.40	16.90
Union of South Africa								
Asiatics	1945-47	M	50.70	54.29	48.78	40.22	24.82	11.97
		F	49.75	52.82	47.47	39.30	24.78	11.96
Coloureds	1945-47	M	41.70	47.81	44.92	36.83	23.97	13.16
		F	44.00	49.53	47.01	39.42	27.26	14.97
Europeans	1945-47	M	63.78	65.51	57.71	48.35	30.38	15.34
		F	68.31	69.63	61.73	52.27	34.07	18.04
Oceania								
Australia /k	1953-55	M	67.14	67.86	59.53	50.10	31.65	15.47
		F	72.75	73.22	64.78	55.06	36.00	18.78
Hawaii	1949-51	M	67.76	68.77	60.36	50.86	32.41	16.79
		F	71.27	71.84	63.37	53.71	34.87	18.42
New Zealand								
Europeans	1950-52	M	68.29	69.03	60.60	51.15	32.65	16.19
		F	72.43	72.90	64.37	54.64	35.64	18.53
Maoris	1950-52	M	54.05	57.69	50.99	42.21	26.41	12.81
		F	55.88	59.08	52.05	43.29	27.00	14.41

NOTES TO TABLE

* Provisional

a/ Values for ages 0 and 1 derived from mortality rates estimated on the basis of data for Trinidad and Tobago.

b/ Values for age 1 derived from mortality rates computed on population assumed to have same age distribution as Jamaica, 1946.

c/ Guadeloupe and Martinique. Similarity in mortality and advantages of greater stability in larger numbers led to decision to compile life table on combined experience.

d/ Values derived from mortality rates based on apparent survivorship rates between census of 1950 and a population for 1951 which was estimated on basis of an assumed rate of growth.

e/ Excluding tribal Indians and Canal Zone.

f/ Data are for population born in Brazil and are derived from mortality rates based on apparent survivorship rates between censuses.

g/ Excluding Amerindians.

h/ Values derived from mortality rates based on apparent survivorship rates between censuses except values for ages under 5 and for 60 which are estimated. States of Uttar Pradesh, Bihar, Orissa, Assam, Manipur, Madras, Mysore, Travancore-Cochin, Coorg, Bombay, Saurashtra, Kutch, Madhya Pradesh, Madhya Bharat, Hyderabad, Bhopal, and Vinhya Pradesh.

i/ Japanese nationals only.

j/ Obtained from sample surveys of about 3.6 per cent of indigenous population.

k/ Excluding full-blooded aborigines.

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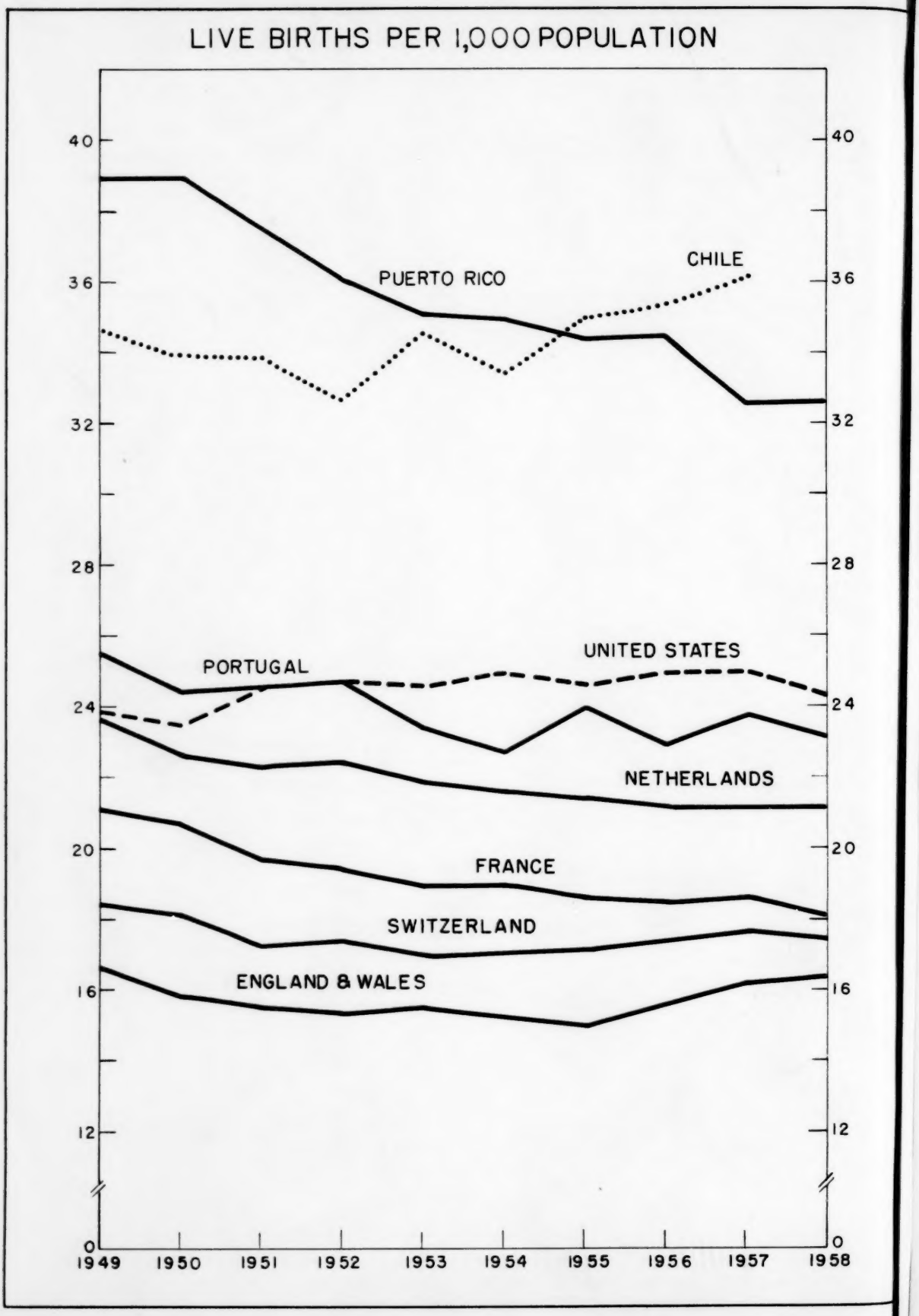
LIVE BIRTHS PER 1,000 POPULATION
40
36
32
28
24
20
16
12
0
1949
1950
1951
1952
1953
1954
1955
1956
1957
1958
PUERTO RICO
CHILE
PORTUGAL
UNITED STATES
NETHERLANDS
FRANCE
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Germany, Democratic Republic - 1059, 1065, 1150, 1176, 1234, 1239, 1408, 2122, 2171, 2178, 2362, 2378, 2426, 2429, 2430, 3168, 3223, 3261, 3264-3266, 3316, 3368, 4143.

Germany, Federal Republic:
General Population Studies and Theory - 1374, 3007.
Regional Population Studies - 1059, 3041, 4109.
Spatial Distribution - 2102, 3097, 3116.
Trends in Population Size - 1059, 4109, 4272.
Mortality - 1160, 1181, 1196, 1250, 2172, 2180, 3157, 3189, 4134, 4174, 4178, 4181, 4508.
Fertility and Natural Increase - 1207, 1208, 1234, 1250, 1400, 2190, 2191, 2214, 3202, 3217, 4191.
Marriage, Divorce, and the Family - 1250, 1374.
International Migration - 1059, 1273, 1282, 1290, 1511, 2236, 2239, 2240, 2242, 2256, 2373, 3262, 3264-3266, 4242, 4250, 4251, 4252, 4507.
Internal Migration - 1290, 1296, 1511, 3287, 4267.
Characteristics - 1059, 1304, 2274, 2344, 3318, 3435, 4272, 4291, 4350, 4456, 4508.
Demographic and Economic Interrelations - 3367, 3369, 3370, 3377, 4251, 4291, 4350, 4456.
Other Interrelations - 1374, 2344, 3318, 3367, 4509.
Policies - 1400, 1409, 2214, 2369, 2373, 3097, 4250.
Methods of Research and Analysis - 1207, 2461, 3425, 3435, 4272.
Organization and Administration - 2435, 2436, 2453, 2461, 3425, 3450, 4291, 4456.
Professional Meetings and Conferences - 2453, 4191, 4459, 4460.
Bibliographies - 2453, 2461, 3041, 3425.
Official Statistics - 1510, 1511, 2497-2499, 4251, 4291, 4506-4509.

Germany, West Berlin - 1512, 3132, 3180, 4240, 4273, 4510.

Greece - 1090, 1327, 2050, 2243, 2500, 3077, 3501, 4274.

Hungary:
General Population Studies and Theory - 2015.
Regional Population Studies - 1055, 1058, 1069, 1072, 2059, 2314, 3036, 3078.
Spatial Distribution - 4097, 4101.
Trends in Population Size - 1128, 2288, 3502, 4101, 4127, 4259.
Mortality - 1155, 1183, 2156, 4127, 4135, 4140, 4144, 4181, 4182.

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Fertility and Natural Increase - 1058, 1069, 1226, 1246, 1248, 1407, 2059, 2210, 3235, 4127, 4205.
Marriage, Divorce, and the Family - 2227, 2434.
International Migration - 1058, 2255, 3036, 4253, 4455.
Internal Migration - 2261, 4257, 4259.
Characteristics - 1069, 1072, 2288, 2314, 2323, 2434, 4127.
Demographic and Economic Interrelations - 1072, 2261, 2314, 2323, 4101.
Other Interrelations - 2261, 2288.
Policies - 1407, 2210, 3235.
Methods of Research and Analysis - 1128, 1155, 2418, 4097.
Organization and Administration - 1456, 2410, 2418, 2423, 2425, 2434, 3437, 4451, 4455.
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Official Statistics - 1513, 2501, 2502, 3502.

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Ireland - 1084, 1175, 1308, 1356, 1514, 2044, 3185, 3249, 3282, 4159, 4192, 4193, 4230.

Italy:
General Population Studies and Theory - 2001, 3007, 4015.
Regional Population Studies - 1028, 1047, 1162, 1262, 1336, 2022, 2041, 2064, 2116, 2170, 3022, 3025, 3127, 3244, 4015, 4030, 4039, 4256.
Spatial Distribution - 1028, 2064, 2089, 2096, 3103, 3110, 3125, 3127, 4060, 4069.
Trends in Population Size - 2001, 2116, 2119, 3022, 3025, 3103, 3127, 4069, 4110.
Mortality - 1141, 1162, 1164, 1166, 1167, 1174, 1182, 1197, 1198, 2119, 2159, 2164, 2170, 3191, 4130, 4145.
Fertility and Natural Increase - 1214, 2041, 2119, 3022, 3206.
Marriage, Divorce, and the Family - 2231, 4015.
International Migration - 1262, 1263 2096, 2242, 2244, 2247, 2252, 2338, 3244, 3254, 3260, 4239, 4241, 4242, 4245, 4256.
Internal Migration - 1285, 1287, 1291, 2096, 2258, 2259, 2268, 2338, 3125, 3268, 3272, 3278, 3287, 4256, 4267.
Characteristics - 1326, 2064, 2320, 3004, 3022, 3278, 3289, 3319, 4015, 4513.
Demographic and Economic Interrelations - 1047, 1336, 2001, 2259, 2320, 2338, 3022, 3025, 3278, 4335.
Other Interrelations - 1376, 1382, 1385, 2041, 2338, 3025, 4015.
Policies - 1287, 2244, 2380, 4398, 4401.

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Methods of Research and Analysis - 1162, 2170, 2231, 4015.
Organization and Administration - 1141, 1182, 1465, 3503, 4030.
Professional Meetings and Conferences - 2089, 2096, 2170, 4060.
Bibliographies - 2469.
New Periodicals - 3486.
Official Statistics - 2503, 3503, 4512, 4513.

Luxembourg - 1121, 1301, 2242.

Malta - 2243, 4514.

Netherlands - 1122, 1163, 1270, 1281, 1301, 1401, 1515, 2229, 2243, 2371, 2504, 3155, 3250, 3252, 3258, 3286, 3287, 3344, 3371, 4089, 4121, 4147, 4201, 4230, 4242, 4246, 4267, 4268, 4515.

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Poland:
General Population Studies and Theory - 2021.
Regional Population Studies - 1046, 1081, 2021, 3027, 3030, 3036, 3037, 3039, 3040, 3042, 3046, 3096, 4029, 4045, 4046, 4056, 4086.
Spatial Distribution - 1081, 3027, 3042, 3046, 3096, 3100, 4046, 4063, 4086, 4093, 4098.
Trends in Population Size - 1129, 3100, 3357, 4086, 4119.
Mortality - 1184, 3037, 3161.
Fertility and Natural Increase - 1234, 3161, 4045, 4056.
International Migration - 1046, 1276, 3036, 3039, 3263, 4056, 4253.
Internal Migration - 1046, 4056.
Characteristics - 1129, 3027, 3096, 3100, 4056, 4119, 4276, 4288, 4296.
Demographic and Economic Interrelations - 3042, 3357, 4098.
Policies - 1081, 1410.
Methods of Research and Analysis - 4063.
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Sweden:
General Population Studies and Theory - 4002.

Sweden (cont.):
Regional Population Studies - 1487, 2193, 3201, 4002, 4044, 4055.
Spatial Distribution - 3109, 3113, 4002, 4044, 4055, 4091.
Trends in Population Size - 1124, 3128, 3129, 4002, 4044, 4055, 4091.
Mortality - 1163, 1173, 2409, 2414, 2448, 2509, 3154, 4181.
Fertility and Natural Increase - 1245, 1402, 2189, 2193, 2195, 2203, 2409, 2412, 3201, 4002, 4198, 4199, 4230.
Marriage, Divorce, and the Family - 2189, 4002, 4230.
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Characteristics - 3307, 4002, 4044, 4198, 4199.
Demographic and Economic Interrelations - 2189, 2335, 3307, 4044.
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Policies - 1402, 3109, 3406, 4091.
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United Kingdom - 1147, 1356, 1387, 2243, 2266, 2337.

Great Britain:
General Population Studies and Theory - 1003, 2004, 3007, 3032, 3035.
Regional Population Studies - 1034, 1040, 1356, 2027, 2036, 2037, 2039, 2042, 2056, 2057, 2084, 2345, 2379, 3023, 3032, 3035, 3048, 3471, 4040, 4057.
Spatial Distribution - 1034, 1092, 2099, 2113, 3033, 3412, 3471, 3472, 4040, 4065, 4088, 4361.
Trends in Population Size - 2056, 2099, 2134, 2393, 3033, 3035, 3412.
Mortality - 1147, 1169, 2027, 2057, 2140, 2145, 2150, 2161, 2167, 2181, 2393, 2513, 3035, 3166, 3174, 3176, 3178, 3179, 3181, 3182, 3188, 3192, 3382, 3438, 3506, 4136, 4142, 4160, 4161, 4164, 4170.
Fertility and Natural Increase - 1003, 1169, 1222, 1386, 2056, 2057, 2099, 2150, 2187, 2213, 2235, 2276, 3035, 3203, 3381, 3505, 4142, 4188, 4203, 4230.
Marriage, Divorce, and the Family - 2056, 2057, 2134, 2232, 2235, 3203, 3381, 3505, 4230.

United Kingdom, Great Britain (cont.):
International Migration - 2079, 2243, 2379, 3048.
Internal Migration - 1003, 1371, 2036, 2037, 2266, 2267, 3412, 3472.
Characteristics - 1003, 1313, 1387, 1393, 2004, 2079, 2099, 2134, 2272, 2276, 2345, 2390, 4040, 4203.
Demographic and Economic Interrelations - 1356, 1357, 2084, 2235, 2337, 3023, 3032, 3033, 3035, 4352, 4357, 4361.
Other Interrelations - 1003, 1371, 1373, 1386, 1387, 1392, 1393, 2084, 2266, 2345, 3381, 3382, 4361, 4366.
Policies - 1222, 1414, 2235, 2358, 2379, 2390, 3405, 3407, 3412, 3414, 3472, 4366, 4391.
Methods of Research and Analysis - 2134, 2267, 2393, 4352.
Organization and Administration - 1040, 2057, 2267, 3034, 3438, 3506, 4425.
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Scotland - 1169, 1313, 1373, 2037, 2150, 2513, 4040, 4088, 4188, 4352.
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U.S.S.R.:
General Population Studies and Theory - 1007, 1025, 3018, 4012.
Regional Population Studies - 1029, 1038, 3054, 3458, 4024, 4037, 4050, 4463, 3054, 3458, 4024, 4037, 4050, 4463.
Spatial Distribution - 1099, 2058, 2108, 3044, 3094.
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Mortality - 1157, 1177, 2139, 2147, 3395, 4125, 4137, 4431, 4520.
Fertility and Natural Increase - 1404, 2362, 3054, 3402, 4050, 4343, 4520.
Marriage, Divorce, and the Family - 2230, 2443.
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Internal Migration - 1298, 1411, 3413, 4050, 4261, 4262.
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Demographic and Economic Interrelations - 1025, 1049, 3044, 4336, 4343.
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Methods of Research and Analysis - 1038, 1427, 1430, 2147.
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China, People's Republic:
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Regional Population Studies - 1051, 1067, 2063, 3080, 3337, 3460, 4011, 4038, 4049, 4444.
Spatial Distribution - 2112, 3080, 3118, 3284, 4011, 4066.

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Trends in Population Size - 2063, 3118, 3284, 3337, 3372, 4011, 4038, 4102, 4444.
Mortality - 2171, 4011, 4102.
Fertility and Natural Increase - 1067, 1405, 2226, 2364, 3080, 4011, 4102.
Marriage, Divorce, and the Family - 2226, 3241.
International Migration - 4011.
Internal Migration - 1335, 3277, 3284, 3337, 4011.
Characteristics - 1325, 3080, 3337, 4011, 4038, 4295, 4306, 4307, 4311-4313.
Demographic and Economic Interrelations - 1335, 2398, 3337, 3372, 4019.
Policies - 1051, 1067, 1395, 1397-1399, 1405, 2063, 2226, 2356, 2357, 2364, 4011, 4019.
Methods of Research and Analysis - 2398.
Organization and Administration - 1067, 2063, 3460, 4038, 4049, 4444, 4447, 4453.
Bibliographies - 2465, 4471.
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India:
General Population Studies and Theory - 1004, 1008, 1023, 3007, 4019.
Regional Population Studies - 1070, 1111, 1394, 1457, 2082, 2120, 2308, 3008, 3038, 3052, 3072.
Spatial Distribution - 1096, 2104, 3433, 4094.
Trends in Population Size - 1004, 1111, 1351, 2120, 4116.
Mortality - 1004, 1189, 3188, 4411.
Fertility and Natural Increase - 1004, 1229, 1231, 1240, 1243, 2197, 2213, 2217, 2397, 3224, 3226, 3436, 4212, 4216, 4383, 4411.
Marriage, Divorce, and the Family - 1253, 4234.
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Internal Migration - 1425, 2463, 3280, 3288.
Characteristics - 1004, 1318, 1321, 1351, 1354, 1457, 2082, 3292, 3297, 3306, 3312, 3345, 3420, 4339, 4342, 4390, 4418.
Demographic and Economic Interrelations - 1004, 1321, 1351, 1354, 1457, 2213, 2304, 2308, 3329, 3332, 3345, 4019, 4315, 4329, 4332, 4339, 4342, 4380.
Other Interrelations - 1229, 2213, 4390.
Policies - 1394, 1423, 2213, 3224, 3226, 3401, 3403, 3420, 4212, 4380, 4382, 4383, 4390.

India (cont.):
Methods of Research and Analysis - 1425, 1468, 1474, 2082, 2397, 3429, 3433, 4411, 4418.
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Professional Meetings and Conferences - 2213.
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Official Statistics - 1521, 1522, 2464, 2517.

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Iran - 1341, 1523, 3515.

Iraq - 2118, 3008, 3050, 3408.

Israel - 1233, 1283, 1416, 2336, 2388, 2518, 3066, 3247, 3267, 3452, 3516, 4235, 4266, 4301, 4399, 4441.

Japan:
General Population Studies and Theory - 1008, 2011, 4010, 4019.
Regional Population Studies - 1056, 1057, 1062, 1320, 1394, 2060.
Spatial Distribution - 1056, 1097, 1107, 2060, 3098, 3373, 4072, 4099, 4103.
Trends in Population Size - 3354, 3355, 4103.
Mortality - 1056, 1136, 1165, 1180, 1187, 1255, 2162, 2521, 4128, 4187.
Fertility and Natural Increase - 1056, 1057, 1234, 1238, 1255, 1367, 2199, 2200, 2208, 4202, 4211, 4213, 4385.
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Other Interrelations - 1255, 4099.
Policies - 1234, 1394, 4010, 4019, 4213, 4250, 4385.
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Organization and Administration - 3455, 4213.
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Official Statistics - 1524, 1525, 2519-2521, 3517, 4523.

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Saudi Arabia - 3408.

Singapore - 1527, 2079, 2207, 3518, 4194, 4484.

Syria - see United Arab Republic, Asia.

Taiwan - 1219, 2088, 3099, 4019.

Thailand - 2083, 3288.

Turkey - 2025, 2523, 3293, 3442, 4054, 4326, 4459, 4464.

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Bechuanaland - 1536, 4186.

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Cameroons (Fr. Adm.) - 1086, 3309, 3520, 4534, 4535.

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French Equatorial Africa - 4106, 4271, 4526, 4527.

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Morocco - 2252, 2526, 3146, 3308, 3363.

Mozambique - 1191, 2527, 3051, 3417.

Nigeria - 1085, 1489, 2114, 3162.

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Togoland (Fr. Adm.) - 3522, 4112, 4535.

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Union of South Africa - 1352, 1420, 1536, 2243, 2246, 2269, 2375, 2530-2532, 3062, 3158, 3411, 3414, 3478, 4247, 4284, 4460.

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Hawaii - 1117, 1133, 1271, 1314, 1365, 2133, 3384, 3396, 4278.

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New Zealand - 1134, 1211, 2194, 2243, 2277, 2324, 2534, 3148, 3524, 3525, 4386, 4539.

Tonga - 3093.

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Spatial Distribution - 1071, 1088, 1089, 1094, 1426, 3085, 3087, 3101, 3145, 4001, 4322, 4368, 4459.
Trends in Population Size - 1071, 2115, 2121, 2130, 3145, 4368.
Mortality - 1154, 1192, 1201, 1432, 2164, 2166, 2186, 3153, 3171, 3193, 4059, 4162, 4179, 4184, 4185, 4359.
Fertility and Natural Increase - 1002, 1018, 1071, 1154, 1234, 1474, 2186, 2224, 2355, 2359, 2361, 2363, 2365, 2370, 3196, 3228, 4197, 4199, 4203, 4214, 4381.
Marriage, Divorce, and the Family - 1256, 3526, 4368.
International Migration - 1015, 1415, 1418, 2237, 2241, 2257, 2389, 3248, 3255, 3256, 3260, 4243, 4248, 4254, 4255.
Internal Migration - 3352.
Characteristics - 2321, 3019, 3256, 3291, 3303, 3314, 3326, 3473, 4199, 4203, 4269, 4282.
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